

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER



1990
Annual
Report

CONTENTS

Chairmen's Reports	2
1990 Highlights	
Basic Science	4
Student Community Service	6
In Vitro Fertilization	8
New Chairman of Medicine	10
Development Report	13
Governance	16
Financial Summary	19
Statistical Summary	20
Donors	22
Professional Staff and Faculty	30

Cover: Embryologist Jacques Cohen, an important part of the team that has given NYH-CMC one of the world's leading programs in the field of in vitro fertilization. Story on page 8.

Opposite: Dr. Robert Michels (right), dean of Cornell University Medical College, and Dr. David Skinner, president of the New York Hospital.

Annual Report photography by Richard Falko



REPORTS FROM THE JOINT BOARD CHAIRMEN



"After serious deficits in 1988 and 1989, the hospital was able to bring its operating budget to near balance, while making considerable progress toward the major modernization that is critical to its future."

As the New York Hospital embarks on its 221st year, its board, physicians, and staff can look back on the 12 months past with particular satisfaction. After serious deficits in 1988 and 1989, the hospital was able to bring its operating budget to near balance, while making considerable progress toward the major modernization that is critical to its future. Although fiscal problems at the city, state and federal levels raise questions about prospective health-care funding, the quality of this hospital's clinical and managerial leadership and the skill and dedication of its staff are beyond question and augur well for its future.

A year ago I was able to report that an exhaustive undertaking in analysis and action, led by the hospital's president, Dr. David Skinner, had reduced the operating deficit from \$57 million one year earlier to \$20 million. A major objective as 1990 began was to decrease the shortfall to \$8 million. Not only did the hospital surpass this goal, but it finished the year with a \$750,000 surplus in the fourth quarter, the first time it has enjoyed a quarterly surplus in some years.

Based on this record, the approved fiscal plan for 1991 calls for a balanced operating budget, with nonoperating income to be allocated for the development of new programs. Although the uncertainties of the health-care sector require that fiscal projections be made cautiously, the results of the early months of 1991 give us reason to anticipate that our goals will be met.

Meanwhile, the hospital continues to make headway toward another critical goal, the reconstruction of its core facilities. Architectural proposals for the replacement of inpatient units have been drawn up, and NYH task forces are in the process of analyzing and refining them. In addition, with our neighbor the Hospital for Special Surgery, we have developed plans to build a joint platform over the FDR Drive to serve as the base for new facilities for both institutions. Hopefully, state approval for this and several other parts of the modernization project will be forthcoming later this year so that construction can begin early in 1992.

As a prerequisite to this entire renovation, funds must be raised as equity, and here too there is good progress to report. Major gifts from the C. V. Starr Foundation and from members of the board of governors—Mr. and Mrs. Ronald Stanton, William Simon, David Koch, John Weinberg, and David Wallace—have given us an excellent start toward our goal. Overall, the hospital received more than \$44.3 million in contributions in 1990. The total of \$72.5 million for the medical center represents an almost 40 percent increase over the amount for 1989 and speaks well for the efforts of Mr. Robert Burch and his development and public affairs staffs.

As important as the reconstruction of our physical plant is the ability to attract outstanding individuals to positions of leadership. The appointment of Dr. Ralph Nachman as physician-in-chief assures the continuation of the highest quality care in the hospital's largest clinical service. Dr. Nachman brings to his new position a distinguished record as head of the medical service's division of hematology, where his achievements have gained him international eminence.

The resignation of Dr. G. Tom Shires as surgeon-in-chief confronts us with the challenge of replacing a leader whose outstanding contributions to surgical care have been universally recognized. In this position and as dean of the medical college, Dr. Shires' commitment to excellence was unwavering. We wish him well as he returns to his native Texas.

No career better illustrates than Dr. Shires' the interrelatedness of patient care, research, and medical education. This is the essence of our partnership with Cornell University Medical College in this medical center. When Payne Whitney brought these two institutions together 65 years ago, he understood that medicine had moved irrevocably into the house of science and that the best medicine would henceforth be practiced in proximity to research and medical education. On behalf of the board of governors, let me reaffirm our commitment to that vision today and extend to Dr. Robert Michels our congratulations and best wishes as he assumes the deanship of the medical college.

Maurice R. Greenberg

Chairman, Society of the New York Hospital
Joint Board Chairman, 1991

This year has been one of significant changes at the medical center, especially in terms of our academic leadership. Early in 1991, after more than three years as dean of Cornell University Medical College and 16 years as its chairman of surgery, Dr. G. Tom Shires resigned both positions to return to Texas. Dr. Shires was born and raised, attended medical school, and spent the first 25 years of his medical career in Texas, and he returns there as chairman of surgery at Texas Tech University. He will be keenly missed at this medical center and in the New York community.

It was Dr. Shires who gave this city the New York Hospital-Cornell Medical Center burn center, the leading facility for burn treatment and research in the world. No one has done more to advance the cause of burn and trauma care than Dr. Shires, and his establishment of this center ranks among his highest achievements.

Considered by many to be the number-one academic surgeon in the United States, Dr. Shires led the department of surgery to a position of preeminence. As dean and provost for medical affairs, his guidance and careful attention to the institution's needs and goals established directions that will have lasting benefit. All of us share a sense of gratitude and admiration for Dr. Shires' leadership and service.

In Dr. Robert Michels Cornell University Medical College has been fortunate to identify in its midst an outstanding successor to Dr. Shires as the Stephen and Suzanne Weiss Dean and provost for medical affairs. Dr. Michels, chairman of the department of psychiatry since 1974, has built one of the world's largest and most influential programs in this specialty. A nationally prominent psychoanalyst, psychiatrist, physician, and scholar, Dr. Michels has served as president of the American Board of Psychiatry and Neurology, the American Association of Chairmen of Departments of Psychiatry, and the American College of Psychiatrists. He has been a member of the board on mental health and behavioral medicine of the Institute of Medicine and of the board of professional standards of the American Psychoanalytic Association. With his profound knowledge of and commitment to the broad spectrum of issues in which the college is involved, Dr. Michels promises to be a superb dean, and I look forward enthusiastically to working with him.

Also from within its own ranks the college was pleased to appoint Dr. Ralph L. Nachman, a nationally recognized hematologist, as chairman of the department of medicine. Since joining the medical center in 1957, Dr. Nachman has served with distinction as vice chairman of medicine, director of the specialized center of research in thrombosis, co-director of the joint M.D./Ph.D. programs of Rockefeller University, Cornell, and Sloan-Kettering Institute, and faculty representative on the board of overseers. His considerable achievements as a researcher and academician, as well as his commitment to medical education, will insure that the medical center continues to excel in physician training and biomedical research.

Dr. Lorraine Gudas, a distinguished molecular biologist from Harvard Medical School and the Dana-Farber Cancer Institute, was named chairman of the department of pharmacology at the medical college, effective May 1, 1991. She has received several honors and awards, has been a guest lecturer at major universities across the country and abroad, and is the author of over 60 publications. Her experience and dedication to biomedical research and education will be invaluable.

Dr. Gudas' appointment extends a process of scientific renewal that has been a top priority for the medical college over the past decade. Central to this effort was the construction of the William and Mildred Lasdon Biomedical Research Center, which was completed last year. While this represents great progress, more remains to be done to replace outmoded facilities and develop new resources of research support if the resurgence of the past decade is to continue. In this connection, CUMC will seek funds for a new education center which will employ information and computer technologies designed for 21st-century medical education.

As we look ahead to these challenges, we take encouragement from the continuing generosity of our many friends, who last year contributed some \$28 million to the medical college. We are heartened, too, by the success of the New York Hospital in effecting a remarkable turnaround in its finances over the past two years. The strength of Cornell University Medical College derives in large part from the superb quality of care for which the New York Hospital has been known throughout its history. On behalf of the medical college board of overseers, I congratulate the hospital on its exceptional progress and look forward to the growing strength of our partnership within the medical center and even greater accomplishment in our joint endeavors.

Frank H. T. Rhodes

Frank H. T. Rhodes
President, Cornell University
Joint Board Chairman, 1990



"In Dr. Robert Michels Cornell University Medical College has been fortunate to identify in its midst an outstanding successor to Dr. Shires as the Stephen and Suzanne Weiss Dean and provost for medical affairs."

1990
HIGHLIGHTS:
BASIC SCIENCE

At a time when an estimated 2 million Americans are infected by the AIDS virus, the search for ways to cure or slow the disease has assumed a high research priority. Thus, it was major news recently when a report in a leading scientific journal described laboratory experiments in which a natural body substance slowed the virus dramatically.

The study, published in *Proceedings of the National Academy of Sciences*, was carried out by a team headed by Dr. Alton Meister, chairman of the department of biochemistry at Cornell University Medical College, and Dr. Anthony Fauci, a former student and resident at NYH-CMC who today, as director of the National Institute of Allergy and Infectious Diseases, coordinates the entire AIDS research effort at the National Institutes of Health.

Dr. Meister is one of the world's foremost authorities on the biochemistry of amino acids, the molecular building blocks of human proteins. One of his principal research interests has been glutathione, a compound of three amino acids that plays an important role in the immune system, the body's system for fighting infection. Individuals infected by the AIDS virus are known to have decreased levels of glutathione in their blood plasma and in certain cells of the immune system.

Drs. Meister and Fauci reasoned that it might be possible to prevent or slow the activation of AIDS virus—and the onset of disease—by means of glutathione or a derivative. To test this hypothesis, they cultured a human cell line chronically infected with low levels of AIDS virus and added to it agents that stimulate viral activity. When cells were pretreated with glutathione or derivatives before these stimulants were added, subsequent viral activity was found to be 80 or 90 percent less than it was in cells that were not pretreated. Moreover, the suppressive effect was dose-dependent—that is, the longer the cells were pretreated with glutathione or a derivative, the greater the suppression of the virus.

Dramatic though the effect was, Drs. Meister and Fauci caution against the view that glutathione therapy might be a magic bullet against AIDS. Even if increasing the glutathione level in the body were an effective therapy, the problem would remain of how to do this: current evidence is that glutathione does not get into cells when it is swallowed and that it disappears within minutes after intravenous injection.

In the hope of overcoming this problem, Dr. Meister and CUMC colleagues have developed derivatives of glutathione that can get into cells and, once there, be converted to glutathione. The derivatives are manufactured in Japan under a license from Cornell, which holds the patent, and preliminary tests involving human subjects are in progress.

Like most biomedical research, the Cornell-NIH study illustrates the critical role played by knowledge

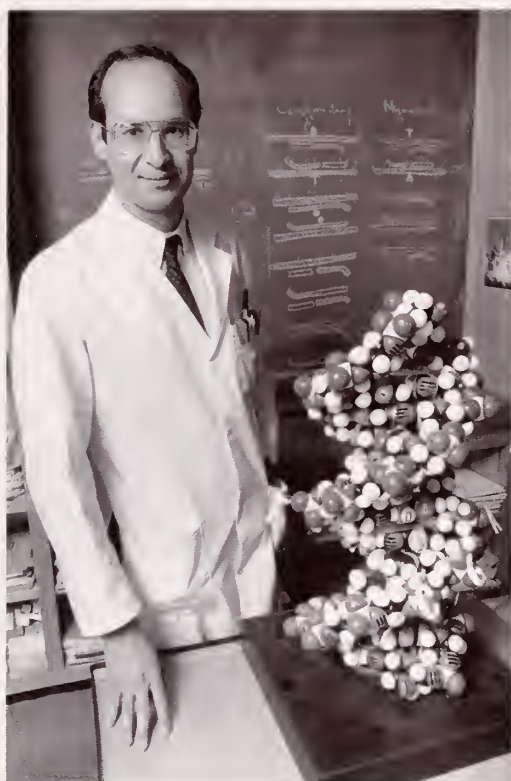
of the basic constituents of life, such as amino acids, proteins, and genes. While fundamental biological science is cultivated throughout the medical college, it has a special priority in its six basic-science departments—biochemistry, cell biology and anatomy, microbiology, pathology, pharmacology, and physiology and biophysics. It is for this reason that strengthening these departments has been a top priority at CUMC over the past decade and remains so today.

In another promising discovery to emanate from the basic-science departments last year, researchers identified a key mechanism by which the herpes simplex virus type I—more commonly known as the herpes cold-sore virus—enters human cells. The finding has implications for the prevention and treatment of herpes-virus infection, one of the most common infections in humans. In addition, since work at CUMC and elsewhere suggests that herpes has a role in the genesis of atherosclerosis, the discovery may some day be applied to the treatment of cardiovascular diseases, including stroke.

In studies published in the journals *Science* and *Nature*, a team headed by Dr. David Hajjar, a professor of biochemistry and pathology at CUMC, reported that the virus gains entry via a cell-surface receptor which normally interacts with a protein that stimulates cell growth and division. Since it appears likely that the virus “piggybacks” on this growth factor, Dr. Hajjar and his colleagues will seek to determine whether they can prevent the virus from infecting cells by interfering with this process. They also plan to investigate whether the genital herpes virus (herpes simplex virus type II) employs a similar mechanism to infect cells. Meanwhile,

Dr. David Hajjar's research on herpes cold-sore virus helped gain him the prestigious Warner-Lambert/Parke-Davis Award.





for his achievements in experimental biology and biochemistry over the past 15 years, Dr. Hajjar has been named the 1991 recipient of the prestigious Warner-Lambert/Parke-Davis Award given annually to a researcher in the basic sciences.

In still another major line of investigation, a scientist in CUMC's department of microbiology has developed a procedure that promises to facilitate the detection of genetic abnormalities and the diagnosis of diseases caused by them. Associate Professor Francis

Barany described the new technique in a recent article in *Proceedings of the National Academy of Sciences*.

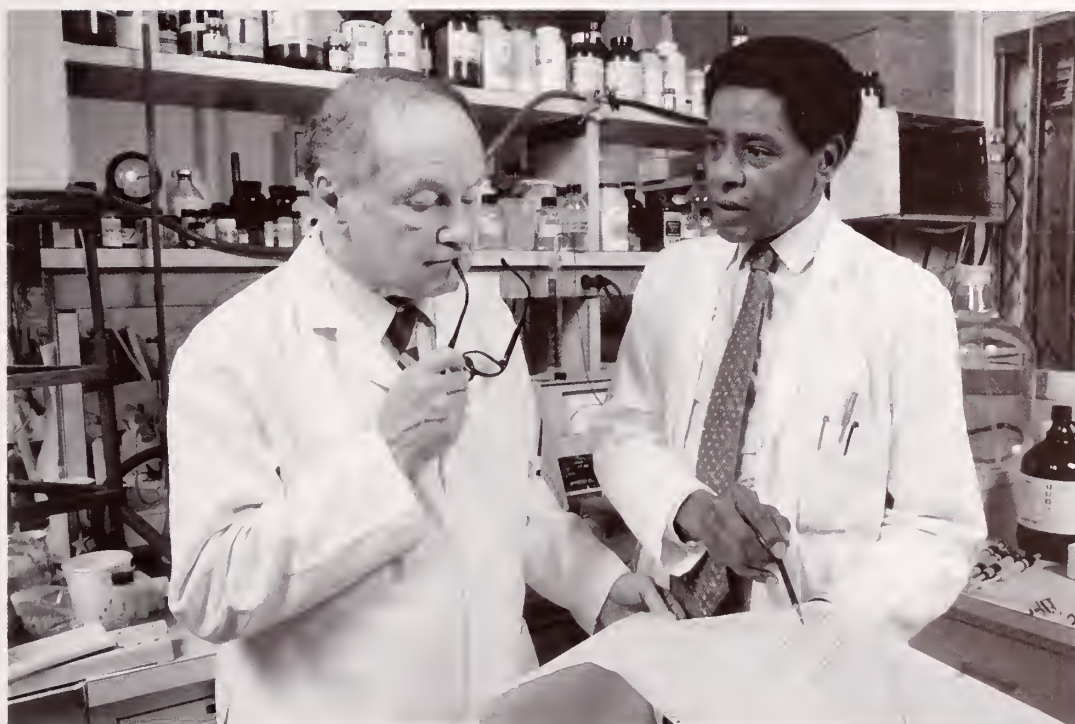
Genetic abnormalities occur as a result of mutations in DNA, a whitish, fibrous substance in which nitrogenous units called bases are linked chainlike in long sequences within the nucleus of a cell. Since the same four bases are found in all DNA, it is their sequence that defines the millions of genes found in nature. Thus, although a single gene can have several thousand bases, the sequence that defines it can be so precise that the substitution of one base for another at just one point in the chain can cause a disease.

In fact, single-base mutations account for half of all known genetic disorders and for more than 2,000 severe hereditary diseases, including sickle-cell anemia, beta thalassemia, cystic fibrosis, some forms of diabetes, Huntington's chorea, and alpha-1 antitrypsin deficiency, a disorder of the lungs. Although much progress has been made in detecting such mutations, the process remains too slow and expensive for routine use, and many aberrations go undiagnosed.

Thus, it is of major importance that the technique developed by Dr. Barany—called ligase chain reaction, or LCR—promises to greatly reduce the time required to detect single-base errors and to permit concurrent testing for many genetic abnormalities.

Indeed, given the ubiquitousness of DNA, this new tool may prove useful in a whole host of ways, such as in treating cancers and infectious diseases, developing drugs, and testing foods. The next step in realizing LCR's exciting potential will be to integrate it with other techniques in DNA diagnostics, an endeavor on which Dr. Barany is hard at work.

Dr. Francis Barany of the department of microbiology developed a technique that promises to greatly facilitate the detection of genetic diseases.



Dr. Alton Meister, seen with senior research technician Gilbert Holland, played a leading role in recent laboratory studies demonstrating glutathione's dramatic suppressive effect on the AIDS virus.

1990
HIGHLIGHTS:
STUDENT
COMMUNITY
SERVICE

Lou Adler, CUMC '92, attends to one of the homeless persons at the St. Agnes Shelter near Grand Central Station.

Before crack ruined his life, Tony says, he worked as a technician in a hospital pathology lab. Now he's a mess, emaciated and aged beyond his years—and, yet, perhaps out of desperation, he seems receptive to the idea of drug treatment.

Or so it seems to Mark Wurfel, a second-year student at Cornell University Medical College, who can be found most Thursday nights volunteering his services at the St. Agnes Shelter for the Homeless near Grand Central Station. Initiated two years ago, the CUMC Thursday-night project offers first aid, advice, and a sympathetic ear to the 300 or more homeless people who get a bed or meal at the shelter nightly.

Mark keeps encouraging Tony to enter treatment, and, when Tony is absent for a number of weeks, he wonders if he has taken his advice. Then one Thursday night Tony is back, more of a mess than ever. He has been in a fight, and, although his arm is broken, he refuses Mark's offer to take him to an emergency room and will only accept an Ace bandage. Then he disappears into the night, not to be seen again.

As beginning medical students with fledgling clinical skills, the CUMC volunteers at St. Agnes know all too well the limits of what they can do. Still, they are convinced they make a difference, and there is more often a surplus than a shortage of volunteers each week.

It is an index of their desire to be of service that close to two thirds of CUMC students in their first or second year (the years when schedules are most amenable) participate in some form of community outreach.

The projects are impressive in their variety. Some involve direct help to patients at the hospital. For example, students with foreign-language proficiency carry beepers that permit them to be called any time doctors need to communicate with non-English-speaking patients. Other students are matched one-on-one with pediatric patients whose parents cannot or simply do not visit them. The student sees the child for at least a half hour a day and meets periodically with doctors and social workers to review the youngster's progress. Originated at Cornell, the program has now been adopted by other medical schools as well.

Many projects involve educational outreach. With support from the Student National Medical Association, Daniel Laroche inaugurated an orientation program two years ago for minority high school students with an interest in the health professions. Danny knew how important first-hand knowledge of medicine and medical education had been in his own choice of career. Concerned about the lack of this knowledge among other minority youngsters, he arranged for groups of city high schoolers to make 10 weekly visits to the medical center to attend lectures by minority physicians, meet medical students, visit labs, learn some rudimentary clinical skills, and do a research paper. The

project has been so successful that the SNMA is funding similar programs at three other medical schools.

In several projects, students put their knowledge of health and science to use as instructors in the public schools. While participating in such a program at Julia Richman High School, Cheryl Colbert was alarmed at the lack of basic knowledge about AIDS that she encountered. She subsequently wrote a training manual that is now used by other CUMC student-instructors in city high schools. In addition to teaching the basics about AIDS in two sessions, the CUMC volunteers give out their phone numbers, so that students with problems can call them.

For Lou Adler, a major impetus for community service came from reading an article about the lack of science knowledge among teachers in elementary schools. One day, while waiting for one of his Cornell classes to begin, Lou asked if anyone was interested in starting a science-education program at a neighborhood school; to his amazement, 60 hands went up. The result was a project, now in its fourth year, in which CUMC students teach first- through fifth-graders about nutrition, digestion, hygiene, anatomy, and immunology. Cornell students learn to explain in simple terms some of the technical information they have acquired, a skill of great importance in patient care. Meanwhile, the teachers welcome the help.

Providing administrative and financial support for the 15 student outreach projects at CUMC is the medical college's office of community service, under the direction of Assistant Dean Joan May. Established in 1989 with a grant from the U.S. Department of Education's Fund for the Improvement of Post-Secondary Education (FIPSE), the office has a full-time staffer who locates new service opportunities and assists in the development of projects. The office also organized a conference early in 1991 to encourage other medical schools to develop community-service programs, with 150 participants from 25 medical colleges attending.

Mrs. May emphasizes that the principal impetus for projects comes from the students themselves, with support from such national organizations as the American Medical Student Association, the American Medical Women's Association, and Students for Equal Opportunity in Medicine. The office of community service provides an important additional measure of support.

In addition to stimulating service, a major purpose of the FIPSE grant (which Cornell was the only medical school to receive) is to reduce student debt—for example, by paying students for full-time work in service agencies during their summer vacations. Mrs. May sees this as a way of encouraging and supporting students interested in primary care and community medicine, careers in which incomes tend to be modest and school debts can be a particular burden.



1990 HIGHLIGHTS: IN VITRO FERTILIZATION

Despite a success rate at NYH-CMC that is double the national average, Dr. Zev Rosenwaks sees further advances in in-vitro fertilization as both imperative and within reach.

Maureen Hunt is a staff nurse at the Center for Reproductive Medicine and Infertility at the New York Hospital.

She is expecting twins this fall.

What makes this unusual is that Mrs. Hunt, like 168 women in 1990, became pregnant through the center's in vitro fertilization program, making her a beneficiary of the consummate teamwork to which she contributes daily.

Established in 1987, the Center for Reproductive Medicine, under the leadership of Dr. Zev Rosenwaks, provides care for the full range of problems related to reproduction. Of the 2,000 patients cared for there last year, about one third would have been told not long ago that pregnancy and childbirth were out of the question. In vitro fertilization (IVF) has changed that.

In its short history, the center has developed into one of the world's leading clinics for IVF, with a success rate about double the national average for such facilities.

For Maureen Hunt and her husband, the prospect of parenthood culminates a story that began in California in 1986, when the couple learned that their inability to conceive was due to a low sperm count. About 35 percent of cases of infertility are caused by male factors, 35 percent by female factors, and 30 percent by some combination of the two. The discovery that a male factor was the cause spared Mrs. Hunt the need to undergo what can be an arduous series of tests lasting as long as 18 months. But the finding was small comfort to the Hunts, for their doctor told them they would probably never have a child.

Refusing to accept this verdict as final, Mrs. Hunt enrolled in the IVF program of the Los Angeles hospital in which she was then working. For 14 days her husband gave her nightly injections of hormones to stimulate the development of eggs, and progress was monitored daily by blood tests and ultrasound. At the end of the two weeks, the eggs were retrieved, incubated for several hours, then inseminated with her husband's sperm. Two tries resulted in no fertilization.

The stress of these attempts notwithstanding, the Hunts still harbored the hope of having children in 1989 when they moved to New York City. The focus of their hopes now was NYH-CMC, essentially for two reasons. One was Dr. Rosenwaks, who had been recruited to head the program the previous year; a pioneer in this field, he had previously directed the Jones Institute for Reproductive Medicine, in Norfolk, Virginia,

home of the first IVF program in the United States. The second reason was Dr. Jacques Cohen, recruited in 1989 from Emory University in Atlanta; a world-renowned embryologist, Dr. Cohen was best known for a procedure known as partial zona dissection, in which a hole is drilled through a membrane surrounding the egg to facilitate entry of sperm.

In December Mrs. Hunt had her first consultation with Dr. Rosenwaks and came away with a bonus—a job as a staff nurse at the center. In May of last year an attempt was made at IVF employing partial zona dissection and an even more recent technique called subzonal insertion, in which a small number of sperm are slipped under the zona. This time fertilization was achieved in four eggs, which, after being permitted to divide for 48 hours, were inserted in the uterus, a 15-minute procedure called transfer.

Although about 29 percent of transfers at the center result in viable pregnancies, on this occasion Mrs. Hunt's was not one of them. Three months later, another attempt did result in a pregnancy that ended in miscarriage after three weeks. Actually, about one fourth of natural pregnancies end in early miscarriages, unknown to anyone, although that was little consolation to the Hunts. Still, after several months' respite, they tried again in January, this time with happy results.

Considering that the world's first IVF pregnancy was achieved only in 1978, the success rate at NYH-CMC last year is indicative not only of the extraordinary skill of the center's doctors, nurses, and staff but of impressive progress in the field as a whole. Still, Dr. Rosenwaks believes that further advances are both imperative and within reach, and research is a high priority here.

Of particular interest is the implantation of the em-





bryo in the wall of the uterus, since it is at this stage or shortly thereafter that IVF most often fails. Thus, of the IVF procedures initiated at the center last year, 75 percent resulted in fertilization and transfer, but only about 36 percent of the transferred embryos implanted themselves successfully in the uterine wall. Of these, about 80 percent developed into viable fetuses.

In one study carried out last year, researchers at the center investigated whether undetected chlamydia, a common infection of the genital tract, can contribute to implantation failure. The results suggest that it can and that an assay for antibodies to this infection may be of value in IVF. In another study, a team led by Dr. Cohen assessed an experimental method of promoting implantation by drilling holes in the zona of a dividing

embryo prior to transfer. Preliminary evidence suggests that the holes do help, particularly for embryos with an evenly shaped zona.

Through continuing advances in technology and knowledge, Dr. Rosenwaks believes, the success rate for IVF will continue to rise in the years ahead. Not only will this be a boon to the one or two percent of couples who can have children no other way, but ultimately IVF may become efficient enough to displace other procedures now used for infertility. Today, IVF is often a last resort after what can be a lengthy, stressful, and expensive series of tests and therapies. With higher success rates, IVF could be used sooner.

Guided by ultrasound images, Dr. Rosenwaks performs a retrieval. The open door leads to an adjoining laboratory where fertilization is carried out.

1990
HIGHLIGHTS:
NEW
CHAIRMAN OF
MEDICINE

Dr. Ralph Nachman examines a patient during rounds and discusses the cases with Dr. Manuel Litchman, left, a clinical fellow, and chief resident Dr. Joseph Cooke.

When Dr. Ralph Nachman came to the New York Hospital-Cornell Medical Center as a house officer in 1957, the department of medicine, he recalls, had about 20 full-time faculty—physicians who supervised the care of patients by house staff, taught medical students, and conducted research.

Nearly 35 years later the department of medicine has about 10 times as many full-time faculty; yet, the number of beds is about the same as it was when Dr. Nachman saw his first patients there.

This is a measure of the extraordinary resources of the department that Dr. Nachman was chosen last year to head, as well as the changing nature of medical care. His principal challenge as physician-in-chief and chairman, Dr. Nachman believes, will be to achieve the right balance among the great diversity of endeavors that come together today in the medical service of a leading academic center.

In large part, the department's growth reflects a phenomenal increase in research and specialization, which Dr. Nachman views as the main engines of medical progress. As an example, he cites the revolution he has seen in the treatment of heart attacks.

"When I was a resident," he says, "and a patient was brought in with a myocardial infarction, there wasn't much to do beyond seeing that he or she got as much rest as possible. If the attack turned out not to be fatal, the patient was likely to be in the hospital for four to six weeks, followed by a long convalescence at home.

"Compare this with what happens today. We have drugs that dissolve clots and restore blood flow to the heart. If need be, we can thread a tiny balloon up to the coronary artery and inflate it to force an opening. Not only are we saving lives, but, because we have the means to avert or limit damage to heart tissue, the patient can often return home within a week and be back at work not long after that.

"How did this kind of progress come about? Primarily through two kinds of activity: scientists, including some in this department, made great advances in understanding the basic mechanisms of clotting, and clinical specialists developed the techniques to bring these gains to the bedside. New York Hospital-Cornell is one of the centers people look to for progress in both areas."

Ahead he sees major initiatives for the department in several rapidly developing sectors of biomedicine. One is the transplantation of pancreatic islet cells as a cure for diabetes. Another is gene therapy, in which genes are inserted in body cells to treat diseases caused by mutations. The gene-therapy initiative, Dr. Nach-

man explains, would be carried out as part of the development at the hospital of a bone-marrow-transplant service for the treatment of leukemias and other blood and immune disorders.

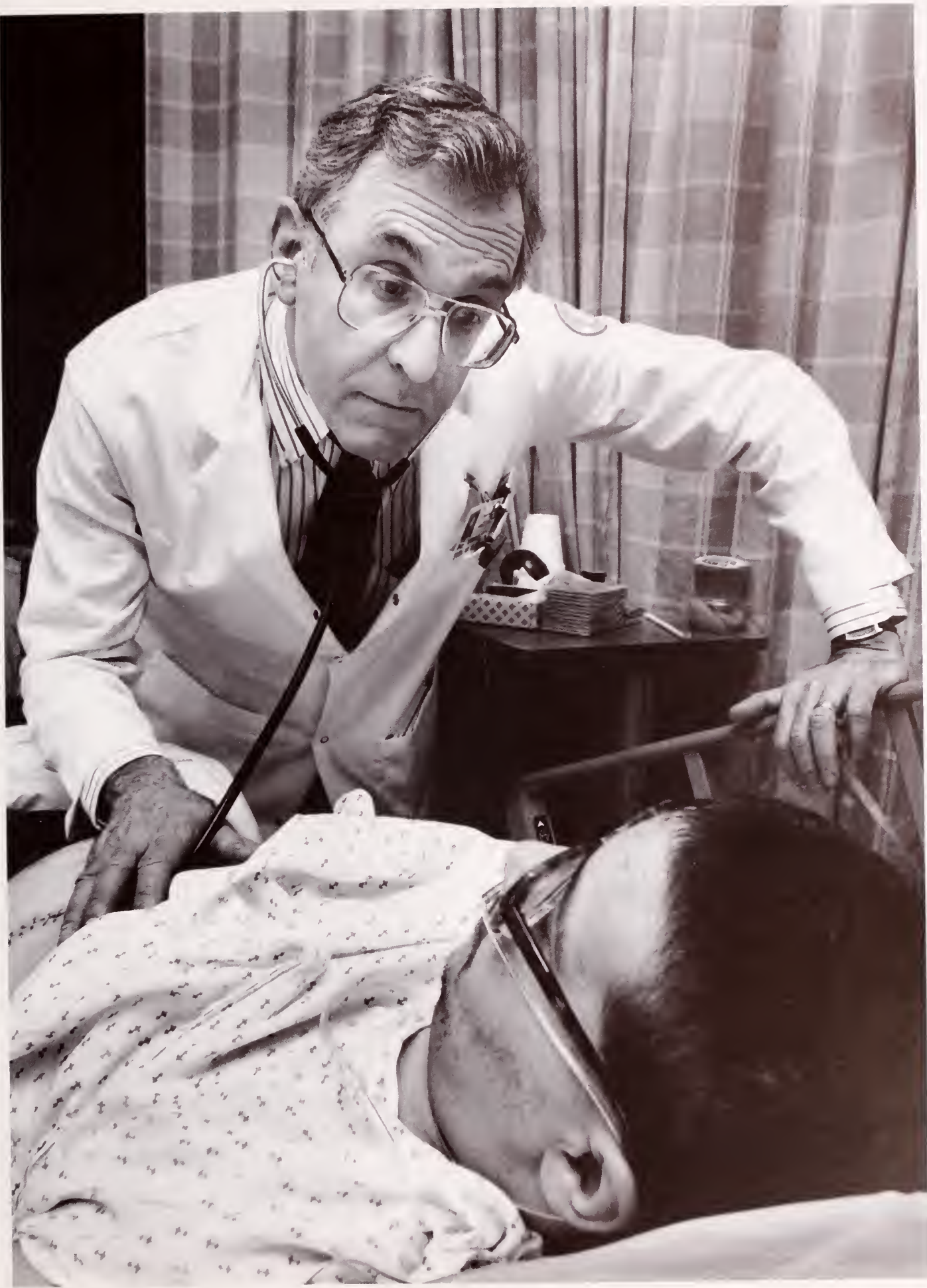
"As the use of bone-marrow transplants increases, so does the need for more facilities that perform them. With our neighbor Memorial Sloan-Kettering, which has a superb service, we intend to develop a unit that not only will help meet this growing clinical need but will provide the basis for a major program in gene therapy. The marrow is one of the most promising sites in the body for gene transfer. With the first attempt at human gene therapy in the United States having occurred as recently as last fall, there is clearly a great potential to contribute to one of the most exciting new directions in clinical medicine."

But, if driving the engines of medical progress remains a high priority, an even higher one is the provision of the best care, and here high-tech, specialty medicine is not always the answer.

"General internal medicine is still at the heart of good clinical care," Dr. Nachman says. "The tremendous growth of specialism does not obviate the need for the physician whose orientation is to the whole patient rather than to a particular body system. In fact, the need may be greater today than ever—in part because medical knowledge has increased so enormously that many young doctors are reluctant to become generalists.

"Very often the most important thing we do for a patient is diagnosis, which usually entails the broad approach of the general internist. Likewise, in the supervision of house staff, who are so vital to our service,







Dr. Paula Nelson, left, a medical intern, and nurse Lisa Myer-Gianelle closely monitor a patient in intensive care. More than 180 house officers make a vital contribution to the department of medicine.

we need strong generalists who are used to the unpredictable turns illness takes at all hours of the day or night. Recruiting a dynamic leader for our division of general internal medicine is at the top of our agenda.

"Two other major priorities have emerged over the past decade," he continues. "One is ambulatory care, which at one time tended to be something of an afterthought in academic medicine. Today, not only is the faculty practice plan a bulwark of this medical center, but ambulatory care is also the fastest growing sector of our activity. As our progress in treating heart attacks illustrates, hospital lengths-of-stay have shrunk dramatically, which means that the site of care has increasingly shifted from the bedside. This consideration will be paramount as we continue to develop our programs for the treatment of AIDS and other chronic diseases and as we evolve new approaches in care for the elderly.

"And this leads to our other recent priority,

cost-efficiency. When I arrived at this medical center, we gave it little thought; today the public absolutely demands it. In the past three years, we have achieved a new level of cost-effectiveness in this department and this hospital, and there is no question that this thrust must continue. In addition, as a major academic center, we need to take a leading role in outcomes research, which gauges the effectiveness of medical procedures and practices. This is bound to be of tremendous importance as public officials and insurers demand increasingly precise measures of quality and appropriateness in medical care.

"Can we continue to do all this given the financial constraints I have described? The great challenge is to find a way. The fact that this hospital has recently surmounted a serious financial crisis with no compromise in the quality of its programs strongly suggests we can."

Today we stand at the threshold of an extraordinary new era of biomedical science. The New York Hospital-Cornell Medical Center has been both beneficiary and contributor to the biomedical information and technology explosion of recent decades. Now New York-Cornell looks toward the future with a renewed sense of purpose. The institution has implemented creative solutions to the challenges of shifting health care reimbursements and the ever-shrinking research and education dollar. In addition, the strengthening of ties between Cornell University Medical College and the New York Hospital has been of paramount importance. This reinvigorated association, of almost seven decades' duration, bodes well for the medicine taught, practiced, and explored here.

Appropriately, support of the medical center for 1990 reached its highest level since 1986, with gifts and pledges totalling \$72.5 million.

The largest single gift, \$25 million from the C.V. Starr Foundation and its chairman, Maurice R. Greenberg (who is also chairman of the New York Hospital's board of governors), is designated for the hospital's modernization. Another hospital governor, William E. Simon, gave a \$3-million gift, which will be applied to the cardiovascular intensive care unit. Governor John L. Weinberg and Goldman Sachs & Co. made a \$1.25-million gift for operating rooms in the Iris and B. Gerald Cantor Ambulatory Surgery Center.

Six million dollars was received from the Harry B. Helmsley Foundation in fulfillment of Mr. and Mrs. Helmsley's \$33-million, multi-year commitment to the New York Hospital. A pledge of \$2.5 million was made by an anonymous donor to Cornell University Medical College in support of the department of anesthesiology laboratories. The William S. Paley Foundation, Inc. established the William S. Paley Distinguished Professorship of Clinical Medicine at the medical college with a \$2-million gift. The Annie Laurie Aitken Charitable Trust supported the departments of surgery and neurology and neuroscience with gifts totalling more than \$1 million. The Gladys and Roland Harriman Foundation provided \$1 million toward equipment acquisition and staff training in the hospital's department of anesthesiology. Another million-dollar gift was made to the Cornell University Graduate School of Medical Sciences by the Andrew W. Mellon Foundation for the joint M.D./Ph.D. program with Rockefeller University and Memorial Sloan-Kettering.

Other foundations providing invaluable support at New York-Cornell include the Reader's Digest Foundation, for fellowships in the department of psychiatry; the Aaron Diamond Foundation, for medical and psychiatric research; the G. Harold and Leila Y. Mathers Foundation, for basic science research in the departments of neurology and neuroscience, cell biology and anatomy, and psychiatry; the Archbold Charitable Trust, toward the establishment of a dermatology professorship; the Skin Disease Society, Inc., for new dermatology laboratories; the Horace W. Goldsmith Foundation, for a training program in child abuse assessment, for staff and technology in the pediatric molecular endocrinology laboratories, and for medical research; the Pinewood Foundation, for the division of plastic surgery and for studies in endocrinology and metabolism; the Langer Foundation, in support of a women's health van for the department of obstetrics and gynecology; the Florence Gould Foundation, for the geriatrics-immunology laboratories in the Lasdon Biomedical Research Center; the Fannie E. Rippel Foundation, for stroke research in the department of neurology and neuroscience; the Children's Blood Foundation, in continuation of its ongoing support of the division of pediatric hematology/oncology; the Ira W. De Camp Foundation, for studies in molecular neuroscience in the departments of psychiatry and neurology and neuroscience; the Richard Lounsbery Foundation, for research in the division of cardiology and the department of microbiology; the Smith Richardson Foundation, Inc., for the department of surgery; the David H. Koch Charitable Foundation, through its director, hospital governor David H. Koch; the Jacob and Valeria Langeloth Foundation; the Bodman and Achelis Foundations; the Rockefeller Foundation; the Isaac H. Tuttle Fund; and the Norman and Rosita Winston Foundation. The United Hospital Fund also made an unrestricted gift to the New York Hospital.

Among the medical center's corporate donors during 1990 were Allen and Company, Inc., for neurological clinical research, honoring Drs. Benjamin H. Kean and Frank Petito; Warner-Lambert Company, in support of the analgesic pharmacology laboratory; Genentech, Inc., for studies in surgical metabolism; BioPharm Clinical Services, Inc., for obstetrical/gynecological research; Bristol-Myers Squibb and Philip Morris, for neurological research; AT&T Company, for equipment in the cardiovascular center; and Warner Brothers, for the department of pediatrics.

Again in 1990, the philanthropy of caring, informed individual donors accounted for the largest portion of gifts to New York-Cornell. The Dyson family and the Dyson Foundation continued their magnanimous support of the department of ophthalmology and the Margaret M. Dyson Vision Research Institute, estab-

DEVELOPMENT REPORT



William E. Simon



David H. Koch



Charles W. Dyson
Margaret M. Dyson



lished in 1989. A generous pledge was received from hospital governor Walter B. Wriston, designated for the divisions of psychobiology and perinatology and for unrestricted purposes. Mr. and Mrs. Burton P. Resnick chose to honor Drs. Isadore Rosenfeld and Frank Petito with gifts to the dean's discretionary fund at the medical college. A trust benefitting Cornell University Medical College was established by Dr. and Mrs. Harry T. Powers. Malcolm Hewitt Wiener provided for research in pediatric burn care within the department of rehabilitation medicine. The B. Gerald Cantors continued their very generous support of the Cantor Ambulatory Surgery Center. Mrs. Cantor is also a hospital governor.

Another hospital governor, Mrs. Vincent de Roulet, funded various programs at the New York Hospital and at Cornell University Medical College. Donald B. Murphy underwrote fellowships in the division of hematology/oncology, in memory of his wife, Susan J. Murphy. Miss Jane M. G. Foster established the Dr. Ezekiel Marion Foster Medical Scientist Fellowship Fund at the medical college.

Other individuals providing important support to the medical center were hospital governors and life governors Mrs. John Hay Whitney, Mr. and Mrs. Ronald P. Stanton, and Mr. and Mrs. Milton Petrie. New York-Cornell also received gifts from Mr. and Mrs. Irving Holtz, Mr. and Mrs. Jonathan Holtz, Wolfgang Flottl, Howard Gilman, Paul L. Newman, and Mr. and Mrs. Philip H. Steckler.

Both the college and hospital received important programmatic, endowment, and unrestricted support from estates and trusts. Among these were the estates of Edith Allen Clark, Anne Cohen, Alma Gilsey, Lola Y. Greene, Irma T. Hirschl, Alvan B. Judd, Abby Rockefeller Mauzé, Genevieve C. Perkins, Curtis T. Prout, Jeanette Routh, Anne M. Serman, Pauline N. Silver, Nina Silverman, Theodate Haines Soule, Herman Stich, Martha Souter, Alvina Walters, Louise T. Woods, and a trust under the will of Henry Goldberg.

The development committee of the medical college's board of overseers had several meetings to review Cornell University's 125th-anniversary campaign. In sessions hosted by Sanford I. Weill, the committee's chairman, members worked on representing the medical center in university activities.

Since 1982, the Medical Center Advisory Board has offered corporate, professional, and community leaders the opportunity to learn about complex health care issues and to serve as valued counselors. John E. Merow succeeded Daniel P. Davison as chairman, and Frank Markoe Jr. continues to serve as vice chairman.

The Departmental Associates program began its ninth program year in 1990 through the efforts of Sanford B. Ehrenkranz, a member of the board of overseers who serves as volunteer chairman, and Marcus M. Reidenberg, M.D., professor of pharmacology and medicine, who is the program's administrator. Ninety members participated in the evening seminars given by medical college faculty and research staff. In addition, spring and fall symposia were held to present and discuss a number of medical issues. Since it was established by life overseer Jansen Noyes Jr. in 1982, Partners in Medicine has recognized medical center donors of \$1,000 or more annually. Its chairman, Thomas H. Bacon, vice chairman, Allan Goldstein, and an active board seek to further expand the group's membership.

Under the presidency of Mrs. Mitchell B. Booth, the Auxiliary of the Society of the New York Hospital committed essential resources to the hospital's capital fund and to such projects as renovation of the admitting office and of the nurses clinic at the Stanley Isaacs Center.

The Cornell Medical College Fund raised more than \$1 million last year from alumni and friends. These efforts, chaired by Dr. Lewis M. Drusin, underwrite college programs and provide vital unrestricted support.

A committee was formed to lead the campaign for an endowed professorship in the division of dermatology. Mrs. Vincent Astor, a life overseer, serves as honorary chairman, while Mrs. C. Payson Coleman, a member of the Medical Center Advisory Board, and Arthur J. Mahon, vice chairman of the board of overseers, are co-chairmen. The campaign was initiated with a cocktail reception hosted by Mr. and Mrs. Henry B. Middleton. (Mrs. Middleton is also a member of the Medical Center Advisory Board.)

The goals of the department of obstetrics and gynecology were advanced by the Executive Committee of the Lying-In Hospital, led by Mrs. Ronald P. Stanton and Mrs. B. Gerald Cantor. The committee's 1990 spring benefit, a fashion show and luncheon at the Waldorf-Astoria, featuring Carolina Herrera's fall/winter collection, raised funds for research, patient care, equipment, and facilities, thanks to the leadership of the event's co-chairmen, Mrs. D. Dixon Boardman, Mrs. Cantor, Mrs. Fredric J. Graber, Mrs. Damon P. Mezzacappa, Mrs. Samuel A. Seaver and Mrs. Al Steinberg. Donna Redel served as raffle chairman.

In the department of psychiatry, the Chairman's Committee for Special Research, founded by Robert Liberman and Dr. Robert Michels, coordinated fundraising and kept the volunteer leadership abreast of the latest

advances in this rapidly developing field. Through the efforts of R. Palmer Baker Jr., Mrs. Henry B. Middleton, Mrs. Kenneth D. Brody, and Mrs. Allerton Cushman Jr., the annual benefit Windows on the Mind provides significant support for research. Community mental health services at the Westchester Division benefited from Stepping Out, chaired by Mr. and Mrs. Charles R. Lee and Mr. and Mrs. Roger J. Weiss.

The department of pediatrics benefits from the active involvement of a number of individuals and committees. The Pediatric Support Committee sponsored the second annual Light Up a Life benefit in November, chaired by Mrs. Frederick L. Buddenhagen. A committee was formed to raise endowment support for the child life program at the Warner Communications Child Life Center. This group includes Mrs. Henry L. Weldon, Annette Paltzer, Mrs. Mark K. Hammerschlag, Mrs. Mark Mashburn, and Mrs. Douglas Lederman. Mr. and Mrs. H. James Toffey serve as co-chairmen of a committee to endow and name the division of pediatric cardiology in honor of its founder and chief, Dr. Mary Allen Engle. The department of pediatrics is one of the beneficiaries of the Children's Miracle Network Telethon, broadcast nationally each June. The telethon raised more than \$900,000 for various pediatric programs. Another group, Friends of N-5, led by Dick and Cassy Quintal, raises money for the Perinatology Fund. Other volunteer efforts on behalf of pediatric allergy and immunology, pediatric intensive care, and pediatric AIDS are in formation.

In the department of ophthalmology, the Eye Advisory Council, whose honorary chairman is Bob Hope, continues to seek programmatic support for the Margaret M. Dyson Vision Research Institute, through the volunteer leadership of Robert H. Abrams, vice chairman, and Jansen Noyes Jr., a life overseer.

Mrs. C. Payson Coleman and Dr. D. Jackson Coleman, chairman of the department of ophthalmology, together with an active volunteer committee, presented Visitors Day programs to capacity audiences. Parents from across the country participated in Parents Day last fall, with Mrs. Arthur E. Eisen providing leadership.

As in years past, special events played a vital role in bringing together volunteers, physicians, professional staff, and the greater medical center community. Cabaret, New York-Cornell's annual gala, held at the Waldorf-Astoria on October 1 with entertainment by Harry Belafonte, raised more than \$1 million. Frank A. Bennack Jr. and Mrs. D. Dixon Boardman were co-chairmen. Mrs. Vincent Astor, Mrs. Daniel P. Davison, Mrs. Milton Petrie, John L. Weinberg, and Walter B. Wriston served as honorary chairmen, and Bernadette Castro Guida was the journal chairman.

The hospital's Center for Special Studies, dedicated to the care of AIDS patients, was honored by the fifth annual Fête de Famille, held at Mortimer's Restaurant. Honorary chairman for this year's fête, which raised over \$600,000, was Mrs. Samuel P. Peabody. Serving as co-chairmen were Mrs. Henry Kissinger, Carolyn Roehm Kravis, Mrs. John L. Marion, Mrs. Abraham A. Ribicoff, Mr. and Mrs. Ronald O. Perelman, Glenn Bernbaum, Bill Blass, and Alan C. Greenberg. A 10th-anniversary exhibition of Paloma Picasso's jewelry at Tiffany's, held in October, raised funds for the Laboratory of AIDS Virus Research.

The eighth annual Women's Health Symposium was held in September at Sotheby's. These symposia focus on a variety of health concerns of interest to women and feature presentations from the worlds of medicine, public policy, entertainment, and the arts. Eleanor T. Elliott and Ruth Stanton continue their co-chairmanship of this perennial favorite.

No review of our recent past could fail to mention the sense of loss we feel at the departure of Dr. G. Tom Shires, world-renowned surgeon, New York Hospital surgeon-in-chief, Lewis Atterbury Stimson Professor and chairman of surgery at Cornell University Medical College, and Stephen and Suzanne Weiss Dean of the medical college. Yet we look forward with anticipation to a new era of leadership at the medical college under the deanship of Dr. Robert Michels, formerly psychiatrist-in-chief and Barklie McKee Henry Professor and chairman of the department of psychiatry.

As new vistas of biomedical science, advances in healing, and modes of education unfold at the dawn of the new century, we pause to reflect with profound gratitude on the friends and family of the New York Hospital-Cornell Medical Center who have helped us to build and maintain our position as one of the foremost medical resources in the world today.

Sanford I. Weill

Sanford I. Weill
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Frank A. Bennack Jr.
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FINANCIAL SUMMARY

**The Society
of the
New York
Hospital**
January 1 –
December 31, 1990

Revenues	\$ Millions	%
Net Patient Service Revenues	473.2	93.7
Other Revenues	31.6	6.3
Total	\$504.8	100.0%
Expenses		
Salaries and Wages	235.8	46.6
Employee Benefits	49.0	9.7
Supplies and Nonsalary Expenses	152.0	30.0
Provision for Uncollectable Accounts	25.5	5.0
Interest	15.2	3.0
Depreciation and Amortization	28.6	5.7
Total	\$506	100.0%
Expenses in Excess of Revenues	\$1.2	

**Cornell University
Medical College**
July 1, 1989 –
June 30, 1990

Revenues	\$ Millions	%
Tuition and Fees	8.7	3.6
Investment Income	11.1	4.7
Restricted Funds for Research and Training	61.1	25.6
State Appropriation	1.2	0.5
Indirect Cost Reimbursement	13.0	5.5
Faculty Practice Plan	130.2	54.5
Other Sources	13.4	5.6
Total Revenues:	\$238.7	100.0%
Expenses		
Instruction and Research Training	14.6	6.1
Research	46.9	19.7
Libraries and Academic Support	4.2	1.8
Student Services and Student Financial Aid	7.7	3.2
General and Administrative Support	14.4	6.0
Plant Operations	11.1	4.7
Faculty Practice Plan	127.3	53.3
Debt Service	1.9	0.8
Other Expenses and Transfers	10.6	4.4
Total Expenditures:	\$238.7	100.0%

STATISTICAL SUMMARY 1990

Services to Patients	Laboratory	3,145,768
	Blood Bank	362,930
	Radioisotopes Services	89,547
	X-Ray Examinations	141,526
	Operations	22,505
	Deliveries	3,775
	Electrocardiograms	75,021
	Electroencephalograms	3,447
	Social Services Interviews	433,166
	Therapy Treatments (Physical, Occupational, Recreational)	255,005
	Transfusions	29,992
	Pharmacy Prescriptions	2,418,431
	Record Room-New Case Records	46,733
	Average Number of Full-Time Employees	6,094

Distribution of Beds	Private	
	Baker-Medicine	77
	Baker-Surgery	41
	Obstetrics and Gynecology	29
	Pediatrics	5
	Total Private	152
	Semi-Private	
	Medical/Surgical	465
	Two-Bed Baker-Medicine	61
	Two-Bed Baker-Surgery	33
	Urology	26
	Obstetrics and Gynecology	96
	Pediatrics	107
	Total Semi-Private	788
	Sub-Total Manhattan Division	940
	Newborn Bassinets	44
	Payne Whitney Clinic	108
	Total Manhattan Division	1,092
	The Westchester Division	322
	Grand Total	1,414

Patient Care	Patients Admitted Manhattan Division	33,750
	Newborn	3,862
	Payne Whitney Psychiatric Clinic	1,220
	The Westchester Division	1,839
	Total	40,671
	Patient Days, All Divisions Including Newborn	427,144
	Visits to Day Hospital	12,636
	Visits to Outpatient Clinics	167,791
	Visits to Emergency Pavilion	54,436

Educational Program	Medical Students	411
	Graduate Students	192
	M.D.-Ph.D. Students (<i>medical and graduate enrollments</i>)	76
	Degrees Conferred (<i>1989-90 academic year</i>)	103
	M.D.	87
	Ph.D.	14
	M.S.	2
	Faculty (<i>including all affiliates – 1989-90 academic year</i>)	3,219
	Full-Time	1,420
	Part-Time	75
	Voluntary	1,724
	Clinical Fellows	137
	House Staff (<i>NYH-CMC only</i>)	560
	Health-Related Students:	
	Dental Hygienists	3
	Dietetic Interns	21
	Emergency Medical Technicians	31
	Medical Social Workers	12
	Surgical Assistants	34
	Samuel J. Wood Library (<i>1989-90 academic year</i>)	
	Visits	283,296
	Journals (titles)	1,634
	Total Volumes	147,535
	New Books Received	1,355

Profile of Entering Medical Students September 1990 (101 admitted out of total applicant pool of 4,625)	Men	57
	Women	44
	Minorities	15
	New York State Residents	55
	College Majors	Science (70); Non-Science (31)
	Mean Grade Point Average	3.5
	Average Age	23.3
	Age Range	21-34
	Universities with Three or More Graduates Admitted:	
	Cornell	24
	Harvard	8
	Columbia	6
	Barnard	4
	Stanford	4
	Yale	3

Research (July 1, 1989 – June 30, 1990)	Federally Sponsored Research (<i>including fellowship and research training</i>) – Total Funding	\$49,752,021
	Privately Sponsored Research – Total Funding	\$24,349,772
	Research Projects Funded – New and Renewals	347

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Auxiliary

In 1912, when the New York Hospital was located at Fifteenth Street and Fifth Avenue but its governors had already begun to think of moving uptown, the wives of three of those governors started what they called a social services committee. As years passed and the committee's activities expanded, it became the Women's Auxiliary of the Society of the New York Hospital and later simply the "auxiliary."

During the past year the auxiliary contributed a total of \$230,000 for hospital projects. Its second annual Halloween raffle netted \$52,000, which was used to purchase life-support equipment requested by the NYH administration.

Other major donations were for the following:

- Thirty-four recliner chairs for the department of pediatrics;
- Stipends for summer interns in the hospital's department of social work and the department of social work of the Payne Whitney Clinic;
- A student seminar program in the department of social services at the Westchester Division;
- The renovation of the siblings waiting room on the third floor of the Lying-In Hospital;
- Stipends for costs incurred by volunteers who take AIDS patients on outings as part of the hospital's pediatric AIDS respite program.

As it has done for many years, the auxiliary contributed to the Volunteer Services for the Elderly of Yorkville, and for the fourth year it provided funding to the New York Hospital methadone clinic to enable children to go to summer camp. It also furnished support to the diversional crafts program of the hospital's department of rehabilitation medicine and funded publication of the New York Hospital page that appears quarterly in the newspaper *Our Town*.

Volunteers

The New York Hospital is extraordinarily fortunate in the remarkable spirit of its volunteers — over 700 people who last year gave more than 64,000 hours of their time working in 142 departments or programs.

These were some of their major contributions in hours:

Adult AIDS Program	3,316
Pediatric AIDS Program	2,199
Admitting Department	2,998
Payne Whitney Clinic	2,748
Patients Library	2,373
Pediatrics	8,854
Radiology	2,293
Social Work	2,318

Those are impressive numbers. But the intangible impact of volunteers in making the New York Hospital a more caring and humane institution is immeasurable.

Awards for levels of service achieved by year's end included the following:

30 Years

Rita Fabac

20 Years

Lollo Erda

15 Years

Ruth Dubow

10 Years

Virginia Boskey
Kenneth Dorland
Demerah Hofstadter
Ruth Livingston
Leonora Meister
Nancy Philson
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5 Years

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Jane Curtis
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Rose Kramer
Susan Levy
Alexandra Rummel
Maryellen Sesselli

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Elizabeth Huebener

5,000 Hours

Lois Kaufmann

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Bex Gibney
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3,000 Hours

Charles Diamond
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Paul A. Marks, M.D.
Victor F. Marshall, M.D.
Wallace W. McCrory, M.D.
Ellen McDevitt, M.D.
Ade T. Milhorat, M.D.
George C. Mueller, M.D.
William F. Nickel, M.D.
Ralph E. Peterson, M.D.
Bronson S. Ray, M.D.
Donald J. Reis, M.D.
Walter F. Riker Jr., M.D.
David E. Rogers, M.D.
Charles A. Sanders, M.D.

John H. Seward, M.D.
Donald M. Shafer, M.D.
Alphonse E. Timpanelli, M.D.
James H. Wall, M.D.
John R. Williams, M.D.
Irving S. Wright, M.D.
Judah Zizmor, M.D.

Emeritus Staff

Seymour Advocate, M.D.
Sam C. Atkinson, M.D.
Lloyd T. Barnes, M.D.
Hermina Z. Benjamin, M.D.
Ruth P. Berkeley, M.D.
Carl A. Berntsen, M.D.
Otto E. Billo, M.D.
Jerome H. Brander, M.D.
John L. Brown, M.D.
Melva A. Clark, M.D.
F. Mitchell Cummins, M.D.
Robert E. Eckardt, M.D.
Ralph L. Engle Jr., M.D.
Ralph A. Eskesen, M.D.
M. Freile Fleetwood, M.D.
Constance Friess, M.D.
Charles H. Goodsell, M.D.
John G. Hansen, M.D.
Leonard L. Heimoff, M.D.
Thomas F. Henley, M.D.
Bernard Jacobs, M.D.
Thomas P. Jernigan, M.D.
Vincent A. Joy, M.D.
William H. Kammerer, M.D.
George L. Kauer Jr., M.D.
Susan A. Kline, M.D.
Herbert Koteen, M.D.
Daniel S. Lukas, M.D.
Benjamin E. Marbury, M.D.
N. Eileen McGrath, M.D.
Willis A. Murphy, M.D.
Mary Ann Payne, M.D.
Aurelia Potor, M.D.
Edgar A. Riley, M.D.
William C. Robbins, M.D.
Arthur W. Seligmann, M.D.
Harry A. Sinclair, M.D.
Beatrice S. Slater, M.D.
Herbert J. Spoor, M.D.
Joseph D. Sullivan, M.D.
J. Russell Twiss, M.D.
Virginia Werden, M.D.

Anesthesiology

Medical Staff

Anesthesiologist-in-Chief
John J. Savarese, M.D.

Attending Anesthesiologists
Joseph F. Artusio Jr., M.D.
Raymond G. Barile, M.D.
Gabriel G. Curtis, M.D.
Herbert L. Erlanger, M.D.
Farida Gadalla, M.D.

Aileen F. Kass, M.D.
Louis J. Maggio, M.D.
Vinod Malhotra, M.D.
Edwina S. Sia-Kho, M.D.
David G. Susman, M.D.
Stephen J. Thomas, M.D.
Marjorie J. Topkins, M.D.
Liebert S. Turner, M.D.
Alan Van Poznak, M.D.
Judith Weingram, M.D.
Fun-Sun Yao, M.D.

**Associate Attending
Anesthesiologists**
Pavel Illner, M.D.
Theresa T. Kudlak, M.D.

**Assistant Attending
Anesthesiologists**
Susan L. Cohen, M.D.
Miles H. Dinner, M.D.
Steven A. Fiamengo, M.D.
Richard H. Fine, M.D.
Jill Fong, M.D.
Matthew C. Gomillion, M.D.
Gregg S. Hartman, M.D.
Subhash Jain, M.D.
Susan Jalandoni, M.D.
Robert E. Kelly, M.D.
Gregory E. Kerr, M.D.
Alan D. Kestenbaum, M.D.
Howard D. Koff, M.D.
Jan L. Kramer, M.D.
Cynthia Ann Lien, M.D.
Howard L. Rosner, M.D.
Lori A. Rubin, M.D.
James D. Shorser, M.D.
Ralph L. Slepian, M.D.
John D. Wasnick, M.D.

Graduate Staff

Clinical Fellows
Matthew R. Belmont, M.D.
Doreen L. Wray, M.D.
Anesthesiologists
Kevin M. Barry, M.D.
Patrick B. Bownes, M.D.
Joseph L. Cristofaro, M.D.
Vincent J. DeAngelis, M.D.
Chris R. Edmonds, M.D.
Susan N. Epps, M.D.
Fariba Faghieh, M.D.
Enrique A. Fernandez, M.D.
Manuel L. Fontes, M.D.
Joanne Goldman, M.D.
Hugh C. Hemmings Jr., M.D.
Lisa Lee Ku, M.D.
Mary E. Lake, M.D.
Stewart R. Leftow, M.D.
Lourdes Maldonado-Viera, M.D.
Sheryl F. Modlin, M.D.
Francis M. Moran, M.D.
Maryann R. Podraza, M.D.
Robert J. Rosen, M.D.
Nitin K. Shah, M.D.
Andrew L. Sternlicht, M.D.
Michael E. Steuer, M.D.
Inkyung Yook, M.D.
Esther M. Yun, M.D.

Assistant Anesthesiologists
Steven Mark Drexler, M.D.
J. Jeffrey Freda, M.D.
David B. Hershan, M.D.
Serle K. Levin, M.D.
Scott A. Mantell, M.D.
Joseph A. Margiotta, M.D.
Roger E. Padilla, M.D.
David S. Park, M.D.
Michael A. Spector, M.D.
Jeffrey Scott Spencer, M.D.
Robert G. Stout, M.D.
Joseph Tjan, M.D.
Lorraine V. Volpe, M.D.
William R. Zimmermann, M.D.

Interns

Mathias Bruefach III, M.D.
Edward Chen, M.D.
Thomas E. Clough, M.D.
Robert L. Doucet, M.D.
David T. Dundee, M.D.
Everett Z. Goldin, M.D.
Rhonda A. Schiff, M.D.
Amber L. Steinberg, M.D.
York-Sung Yu, M.D.

Medicine

Medical Staff

Physician-in-Chief
Ralph L. Nachman, M.D.
Attending Physicians
Michael H. Alderman, M.D.
Donald Armstrong, M.D.
Jeremiah A. Barondess, M.D.
David V. Becker, M.D.
Richard S. Bockman, M.D.
Morton D. Bogdonoff, M.D.
Jeffrey S. Borer, M.D.
Michael S. Bruno, M.D.
Robert G. Campbell, M.D.
D. Martin Carter, M.D.
Eric J. Cassell, M.D.
Jhoong S. Cheigh, M.D.
Charles L. Christian, M.D.
Morton Coleman, M.D.
Edward D. Crandall, M.D.
R. Gordon Douglas Jr., M.D.
Murray Dworetzky, M.D.
Henry R. Erle, M.D.
William T. Foley, M.D.
Zvi Y. Fuks, M.D.
Marvin C. Gershengorn, M.D.
Howard Goldin, M.D.
George W. Hambrick Jr., M.D.
Joseph G. Hayes, M.D.
Eric A. Jaffe, M.D.
Warren D. Johnson, M.D.
Lawrence J. Kagen, M.D.
Attallah Kappas, M.D.
B. H. Kean, M.D.
Harvey Klein, M.D.
John H. Laragh, M.D.
Nicholas T. Macris, M.D.
Aaron J. Marcus, M.D.
Klaus Mayer, M.D.

The New York Hospital-Cornell Medical Center represents an affiliation of the New York Hospital and Cornell University Medical College. Physicians at the medical center have appointments in both institutions.

Chiefs of service at the New York Hospital, with the exception of the physiatrist-in-chief, serve as chairmen of corresponding clinical departments of Cornell University Medical College. Physicians at the hospital have faculty appointments in the medical college. For the sake of simplicity, however, the center's clinical faculty are listed here by their hospital titles only and not by their academic titles.

In addition to the clinical departments, the center also has six basic science departments. Since the work of these departments consists almost entirely of teaching and research, many basic-science faculty do not have hospital appointments. They are, therefore, listed here by academic title.

The medical center has affiliations with a number of institutions, including the Hospital for Special Surgery, the Burke Rehabilitation Center, Memorial Sloan-Kettering Cancer Center, North Shore University Hospital, Catholic Medical Center of Brooklyn and Queens, Lenox Hill Hospital, St. Barnabas Hospital, the Will Rogers Institute, and LaGuardia Hospital. Because of space limitations, professional staff at these institutions who do not have New York Hospital appointments are not listed in the following pages.

John Mendelsohn, M.D.
Henry W. Murray, M.D.
Carl F. Nathan, M.D.
Irwin Nydick, M.D.
Francis S. Perrone, M.D.
Thomas G. Pickering, M.D.
R. A. Rees Pritchett, M.D.
George G. Reader, M.D.
Marcus M. Reidenberg, M.D.
Jack Richard, M.D.
Richard S. Rivlin, M.D.
Richard B. Roberts, M.D.
Isadore Rosenfeld, M.D.
Albert L. Rubin, M.D.
Bijan Safai, M.D.
Abdol H. Samiy, M.D.
Stephen S. Scheidt, M.D.
Lawrence Scherr, M.D.
Richard T. Silver, M.D.
Gregory W. Siskind, M.D.
C. Lynn Skelton, M.D.
James P. Smith, M.D.
Richard L. Soffer, M.D.
Herman Steinberg, M.D.
Kurt H. Stenzel, M.D.
Peter E. Stokes, M.D.
Manikkam Suthanthiran, M.D.
Henry M. Thomas III, M.D.
David D. Thompson, M.D.
Douglas P. Torre, M.D.
Lila A. Wallis, M.D.
Babette B. Weksler, M.D.
Marc E. Weksler, M.D.
A. Lee Winston, M.D.
Alan Yagoda, M.D.
David Zakim, M.D.

Associate Attending Physicians

Kathy L. Ales, M.D.
Robert S. Ascheim, M.D.
Steven A. Atlas, M.D.
Phyllis August, M.D.
Ralph A. Baer, M.D.
Daiva R. Bajorunas, M.D.
Kalman J. Berenyi, M.D.
Magdalena R. Berenyi, M.D.
Robert T. Binford Jr., M.D.
David S. Blumenthal, M.D.
Bernard H. Boal, M.D.
Norman Brachfeld, M.D.
Robert L. Braham, M.D.
Barry D. Brause, M.D.
Mark S. Brower, M.D.
Donald J. Cameron, M.D.
David B. Case, M.D.
Mary E. Charlson, M.D.
James P. Christodoulou, M.D.
Vincent A. Cipollaro, M.D.
Eugene J. Cohen, M.D.
Richard P. Cohen, M.D.
Denton S. Cox, M.D.
Mary K. Crow, M.D.
Richard B. Devereux, M.D.
Lewis M. Drusin, M.D.
Adrian L. Edwards, M.D.
Edwin Ettinger, M.D.
Thomas J. Fahey Jr., M.D.
George A. Falk, M.D.
Jeffrey D. Fisher, M.D.
John E. Franklin Jr., M.D.
Steven M. Friedman, M.D.
Richard M. Fuchs, M.D.
Martin Gardy, M.D.
(leave of absence)
Allan Gibofsky, M.D.
David L. Globus, M.D.
Charles H. Goodrich, M.D.
Bruce R. Gordon, M.D.
George W. Gorham, M.D.
Barry J. Hartman, M.D.
Richard A. Herrmann, M.D.
Raymond B. Hochman, M.D.
Donald W. Hoskins, M.D.
James R. Hurley, M.D.
Julianne Imperato-McGinley, M.D.
Norman J. Isaacs, M.D.

Ira M. Jacobson, M.D.
Deborah L. Keefe, M.D.
Robert P. Kimberly, M.D.
Thomas K. C. King, M.D.
Paul D. Kligfield, M.D.
Ione A. Kourides, M.D.
Mary Jeanne Kreck, M.D.
Jeffrey C. Laurence, M.D.
Bruce B. Lerman, M.D.
Leo R. Lese, M.D.
Marjorie G. Lewisohn, M.D.
Daniel M. Libby, M.D.
Jerrold S. Lieberman, M.D.
Norton M. Luger, M.D.
Steven K. Magid, M.D.
Richard J. Mahler, M.D.
Joseph A. Markenson, M.D.
Maurie Markman, M.D.
Allen W. Mead, M.D.
Daniel G. Miller, M.D.
David H. Miller, M.D.
Paul F. Miskovitz, M.D.
Anne Moore, M.D.
Dattatreya N. Nori, M.D.
Stephen A. Paget, M.D.
Mark Pasmantier, M.D.
Mark S. Pecker, M.D.
Mary Kathryn Pierri, M.D.
David N. Posnett, M.D.
Philip G. Prioleau, M.D.
Lawrence M. Resnick, M.D.
Charles Ressler, M.D.
Robert R. Riggio, M.D.
Thomas N. Roberts, M.D.
Joseph T. Ruggiero, M.D.
Stuart D. Saal, M.D.
Jane E. Salmon, M.D.
Robert A. Schaefer, M.D.
Leonard H. Schuyler, M.D.
Gillian M. Shepherd, M.D.
Raymond L. Sherman, M.D.
Moshe Shike, M.D.
Gerald M. Silverman, M.D.
Rosemary Soave, M.D.
Henry A. Solomon, M.D.
Lawrence S. Sonkin, M.D.
Irving M. Spitz, M.B., B.Ch.
Charles R. Steinberg, M.D.
Carol Storey-Johnson, M.D.
John F. Sullivan, M.D.
Andrew John Szabo, M.D.
Luis Tapia, M.D.
Clinton G. Weiman, M.D.
Alan M. Weinstein, M.D.
Aaron O. Wells, M.D.
Michael J. Wolk, M.D.
Michael A. Zullo, M.D.

Assistant Attending Physicians

Siddhartha A. Acharya, M.D.
Alberto M. Acosta, M.D., Ph.D.
David M. Allen, M.D.
(leave of absence)
Olivier P. Ameisen, M.D.
Louis J. Aronne, M.D.
Adam Asch, M.D.
Mayer Ballas, M.D.
Charles L. Bardes, M.D.
Carol G. Baum, M.D.
Paul M. Belsky, M.D.
Bry Benjamin, M.D.
Gregory I. Berk, M.D.
Nina Bhardwaj, M.D.
James A. Blake, M.D.
Dennis A. Bloomfield, M.D.
Jon D. Blumenfeld, M.D.
Mitchell J. Blutt, M.D.
Jim Boatman, M.D.
Leona Brenner-Gati, M.D.
David J. Brillonn, M.D.
Michael C. Cantor, M.D.
Victor Tsu-Shih Chang, M.D.
Bruce D. Charash, M.D.
Dominick R. Chiarieri, M.D.
Paul J. Chrzanoski, M.D.
Sheryl D. Clark, M.D.
Oren J. Cohen, M.D.

William J. Cole, M.D.
C. Stephen Connolly, M.D.
Bradley A. Connor, M.D.
Joseph T. Cooke, M.D.
Robert B. Cooper, M.D.
Andrew J. Dannenberg, M.D.
Spencer I. Danto, M.D., Ph.D.
Iris L. Davis, M.D.
Paul J. Deutsch, M.D., Ph.D.
Kathleen B. Downey, M.D.
Andrew J. Drexler, M.D.
Joseph C. Dreyfus III, M.D.
Kirk M. Druey, M.D.
Richard H. Dyckman, M.D.
George C. Ellis, M.D.
Angie Eng, M.D.
Glenn H. Englander, M.D.
Jay A. Erlebacher, M.D.
Orli R. Etingin, M.D.
Daniel E. Fass, M.D.
Jose I. Fernandez, M.D.
Theodore Fields, M.D.
Laura L. Fisher, M.D.
Luz S. Fonacier, M.D.
Mitchell L. Gaynor, M.D.
Brian S. Geller, M.D.
David M. Gelmont, M.D.
Barbara R. Gerling, M.D.
Michael F. Giordano, M.D.
Joel S. Gitlin, M.D.
Denise Fabiola Glickman, M.D.
Harvey L. Goldberg, M.D.
Richard S. Goldweit, M.D.
Susan M. Goodman, M.D.
Alice B. Gottlieb, M.D., Ph.D.
William R. Griffo, M.D.
Rachel Grossman, M.D.
Harry L. Gruenspan, M.D.
Lucinda A. Harris, M.D.
Catherine C. Hart, M.D.
David C. Helgott, M.D.
Arthur D. Heller, M.D.
Barbara L. Hempstead, M.D.
Edmund M. Herrold, M.D.
John L. Ho, M.D.
Clare Hochreiter, M.D.
James P. Hollenberg, M.D.
Barton Inkeles, M.D.
Lawrence A. Inra, M.D.
Jonathan L. Jacobs, M.D.
Charles I. Jarowski, M.D.
Michael K. Jason, M.D.
Kenneth R. Kafka, M.D.
Mazen Kamen, M.D.
Steven Kaplan, M.D.
Mohamad S. Kassir, M.D.
Lawrence A. Katz, M.D.
Young S. Kim, M.D.
Elliot Robert Klaw, M.D.
Ludwig Klein, M.D.
Barry J. Klyde, M.D.
Michael J. Koren, M.D.
Kenneth R. Krauss, M.D.
Dillian La Salle, M.D.
Arnon Lambroza, M.D.
Elisheva D. M. Landman, M.D.
Richard I. Lappin, M.D., Ph.D.
Oscar L. Laskin, M.D.
George B. Leber, M.D.
Larry Lerner, M.D.
Brian L. Levy, M.D.
Margaret Lewin, M.D.
Amy D. Lichtenfeld, M.D.
Eric S. Lichtenstein, M.D.
Howard M. Likier, M.D.
Anne S. Lincoff, M.D.
George V. Lombardi, M.D.
Jorge A. Lopez-Ovejero, M.D.
Richard L. Lubman, M.D.
Gregory Macina, M.D.
C. Ronald MacKenzie, M.D.
Norman Magid, M.D.
Jeanne S. Mandelblatt, M.D.
Samuel J. Mann, M.D.
Stephen J. Margulis, M.D.
Stephen J. Marks, M.D.

Franklin Marsh Jr., M.D.
Robert J. Mascitelli, M.D.
Carl McDougall, M.D.
George A. McLemore Jr., M.D.
Ellen M. Mellow, M.D.
George A. Mensah, M.D.
Carlyle H. Miller, M.D.
Ilene J. Miller, M.D.
Ira A. Morris, M.D.
Elizabeth C. Muss, M.D.
Jerry Nagler, M.D.
Thomas W. Nash, M.D.
Hamid Nawaz, M.D.
Robert J. Newborn, M.D.
Jeffrey N. Nichols, M.D.
John P. Nicholson, M.D.
Paul M. Nonkin, M.D.
Richard S. Novitch, M.D.
Martin Nydick, M.D.
Peter M. Okin, M.D.
Thomas W. Pappas, M.D.
Benjamin B. Park, M.D.
Edward J. Parrish, M.D.
Martin Perlin, M.D.
Martin R. Post, M.D.
Jacek J. Preibisz, M.D.
Joanne Puccio, M.D.
Allen R. Radin, M.D.
Deborah L. Raice, M.D.
Bharathi Raman, M.D.
Elizabeth Ramos, M.D.
Lonny Reisman, M.D.
Gene D. Resnick, M.D.
Basil Rigas, M.D.
Lee Woodland Riley, M.D.
Marcos Rivelis, M.D.
Michael J. Robbins, M.D.
Arnold M. Rochwarger, M.D.
John S. Rodman, M.D.
Nancy Roistacher, M.D.
Mary J. Roman, M.D.
Patricia M. Romano, M.D.
Michael A. Rosenbluth, M.D.
Elisabeth L. Rosenthal, M.D.
Albert M. Ross, M.D.
Deborah E. Rudin, M.D.
Rosann M. Russo, M.D.
Mayer I. Rydzinski, M.D.
Diana Santini, M.D.
Robert L. Savillo, M.D.
Frederic L. Sax, M.D.
Lawrence L. Scharer, M.D.
Michael J. Schmerin, M.D.
Steven J. Schneider, M.D.
Melissa P. Schori, M.D.
Ira Cliff Schulman, M.D.
Sergio Schwartzman, M.D.
Kenneth P. Scileppi, M.D.
Rachelle A. Scott, M.D.
Mark A. Seldon, M.D.
Sam Senturia, M.D.
Morris A. Shorofsky, M.D.
Roy L. Silverstein, M.D.
Jerome Simson, M.D.
Clayton A. Smith, M.D.
Charles Smithen, M.D.
Alan G. Snart, M.D.
Meyer N. Solny, M.D.
Martin Sonenberg, M.D.
Julio E. Sotelo, M.D.
Alan Spiegel, M.D.
Artur M. Spokojny, M.D.
Kathleen E. Squires, M.D.
Michelle Steffers, M.D.
Richard Stern, M.D.
Mark Y. Stoeckle, M.D.
Alison Stopeck, M.D.
Ted P. Szatrowski, M.D.
Steve C. Tam, M.D.
Jeffrey Tepler, M.D.
Thomas L. Tuttle, M.D.
Theodore I. Tyberg, M.D.
Mathew C. Varghese, M.D.
Arthur S. Verdesca, M.D.
Donald C. Wallerson, M.D.
John C. L. Wang, M.D.

Arnold Leon Weg, M.D.
 Stuart A. Weinerman, M.D.
 Luise L. Weinstein, M.D.
 Pamela G. Williams-Russo, M.D.
 David J. Wolf, M.D.
 Todd J. Yancey, M.D.
 Stanley S. Yormak, M.D.
 James W. Young, M.D.
 David A. Zackson, M.D.
 Benjamin E. Zola, M.D.
 Michael M. Zukowsky, M.D.

Clinical Affiliates

Henriette E. Abel, M.D.
 Robert R. Abel, M.D.
 Alvin L. Adler, M.D.
 William A. Anderson, M.D.
 Athanasia Apostolopoulos, M.D.
 Georgette N. Aprile, M.D.
 Francis P. Arena, M.D.
 Harry Bienenstock, M.D.
 John P. Blass, M.D., Ph.D.
 Steven H. Blobstein, M.D.
 Berna J. R. Blom, M.D.
 Robert G. Brayton, M.D.
 Daniel A. Burton, M.D.
 Yolanda A. Cestero, M.D.
 Jean A. Cramer, M.D.
 Renato A. de Leon, M.D.
 Anthony J. M. de Silva, M.D.
 Keith B. Elkon, M.D.
 Anne Marie Filkin, M.D.
 Helen S. Flamenbaum, M.D.
 John T. Flynn, M.D.
 Alissa B. Fox, M.D.
 Kenneth W. Franklin, M.D.
 William P. Given Jr., M.D.
 David Gluck, M.D.
 Ira H. Gouterman, M.D.
 Jack R. Harnes, M.D.
 Ann C. Hill, M.D.
 Esther Ho-Kung, M.D.
 Francis W. Jacobellis, M.D.
 Michael I. Jacobs, M.D.
 Harvey H. Jay, M.D.
 Roderick T. Kaufmann Jr., M.D.
 Mitchell A. Kline, M.D.
 Gary R. LeClercq, M.D.
 Charles M. Lewis, M.D.
 Alison C. Lindsay-Beltzer, M.D.
 Martin Lipkin, M.D.
 Matthew Bruce Lubin, M.D.
 Mark R. Marciano, M.D.
 I. Ira Mason, M.D.
 Eugene G. McCarthy, M.D.
 Donald G. McKaba, M.D.
 Robert B. Millman, M.D.
 Abraham M. Mizrahi, M.D.
 James P. Mooney, M.D.
 Anthony C. Parris, M.D.
 Malcolm C. Phillips, M.D.
 Arthur D. Philson, M.D.
 Evelyn Placek, M.D.
 Michael I. Rehmar, M.D.
 Arleen B. Rifkind, M.D.
 John F. Romano, M.D.
 Neil S. Sadick, M.D.
 Ethlynn S. Schorr, M.D.
 Ernest Schwartz, M.D.
 Peter A. Seitzman, M.D.
 Benson H. Shalette, M.D.
 Frederick M. Stier, M.D.
 Erasmo C. Sturla, M.D.
 Ida M. Tiongco, M.D.
 Eric S. Treiber, M.D.
 Mary Beth Walsh, M.D.
 Hendricks H. Whitman III, M.D.
 James F. Wittmer, M.D.

Professional-Associate Staff

Professional Associates
 Robert Allan, Ph.D.
 Carol Ann Schmitt

Professional Associates
 (Podiatry)
 Martin Gilman, D.P.M.
 Jaleh Hoorfar, D.P.M.

Graduate Staff

Clinical Fellows
 Harry R. Aldrich, M.D.
 Dalit Ashany, M.D.
 Nir J. Barzilai, M.D.
 Robert D. Blank, M.D., Ph.D.
 Richard J. Bucala, M.D., Ph.D.
 William J. Canovatchel, M.D.
 Gabriella Nora Cesarman, M.D.
 Ruth M. Crowe, M.D., Ph.D.
 Booker H. Dalton Jr., M.D.
 Kamlesh N. Dave, M.D.
 Gina C. Del Giudice, M.D.
 James C. DiLorenzo, M.D.
 Robert M. Eisdorfer, M.D.
 Ana Maria Espinoza, M.D.
 Robert G. Fafalak, M.D.
 Charles M. Farber, M.D., Ph.D.
 Steven N. Fine, M.D.
 Joseph Fins, M.D.
 Arthur L. Forni, M.D.
 Ethan D. Fried, M.D.
 Gary Steven Friedman, M.D.
 Stuart B. From, M.D.
 Bruce G. Gellin, M.D.
 Harry H. Gibbs, M.B., B.S.
 Judith Goldberg-Berman, M.D., Ph.D.
 Ghassan W. Jamaledine, M.D.
 Yveline Danielle Jean-Claude, M.D.
 Antonio Joseph Jr., M.D.
 Shivanand S. Karkal, M.D.
 Roger S. Keresztes, M.D.
 Anna M. Korkis, M.D.
 Anne Kublin, M.D.
 Robert L. Labarre, M.D.
 Neal Lippman, M.D.
 Manuel B. Litchman, M.D.
 Carol Mancuso, M.D.
 David B. Messinger, M.D.
 Brian Michel, M.D.
 Claudio P. Milite, M.D.
 G. Diego Miralles, M.D.
 Thomas J. Molloy, M.D.
 Jeffrey H. Perlman, M.D.
 Richard M. Poon-King, M.B., B.S.
 Andrew J. Porges, M.D.
 Mark W. Preminger, M.D.
 Shahin Rafii, M.D.
 Vinitha Raghavan, M.D.
 Nitai I. Riegler, M.D.
 Stacey Elyn Rosen, M.D.
 Lisa R. Sammaritano, M.D.
 Elaine J. Schattner, M.D.
 Christian W. Schindler, M.D., Ph.D.
 Neil W. Schluger, M.D.
 Peter A. Shaftel, M.D.
 Karen Ann Siller, M.D.
 Rampaul G. Singh, M.D.
 Kenneth M. Stein, M.D.
 Jo-Ann Suna, M.D.
 Ariel Dan Teitel, M.D.
 Hedy Teppler, M.D.
 Jane Maria Tramontana, M.D.
 Roy J. Ulin, M.D.
 Frances R. Wallach, M.D.
 Craig Hugh Warschauer, M.D.
 Robert A. Winters, M.D.
 John Wong, M.B., B.S.
 Gary Zagon, M.D.

Assistant Physicians

Josyann Abisaab, M.D.
 James R. Albanese, M.D.
 Holly S. Andersen, M.D.
 David A. Berkman, M.D.
 Frederick M. Briccetti, M.D.
 Josepha Bueno, M.D.
 Matthew R. Caleb, M.D.
 Robert D. Campagna, M.D.
 Roger V. Cappucci, M.D.

David J. Chang, M.D.
 Jack P. Chen, M.D.
 Maureen T. Connelly, M.D.
 James S. Cornell, M.D., Ph.D.
 Asha Das, M.D.
 Jonathan David, M.D.
 Jose M. Dizon, M.D.
 Rene S. Eng, M.D.
 Francis J. Fahey, M.D.
 David M. Felig, M.D.
 Jack L. Flyer, M.D.
 Renee Frankel, M.D.
 Karen B. Green, M.D.
 Erminia M. Guarneri, M.D.
 William S. Hauptman, M.D.
 Robert M. Hitscherich, M.D.
 Michael L. Holdeman, M.D.
 Heidi S. Hutter, M.D.
 Adam D. Jarrett, M.D.
 Elana N. Kripke, M.D.
 Glenn S. Kroog, M.D.
 Linda R. La Trenta, M.D.
 Paul J. Lama, M.D.
 Paul J. Lee, M.D.

Steven J. Lobritto, M.D.
 Frank H. Lovaglio, M.D.
 Steven M. Markowitz, M.D.
 Susan Markush, M.D.
 Samuel T. Merrick, M.D.
 Shari R. Midoneck, M.D.
 Mehrdad Moasser, M.D.
 David H. Montgomery, M.D.
 Patricia L. Murphy, M.D.
 Anthony F. Nostro, M.D.
 Frederick A. Nunes, M.D.
 Martee Leigh Olenich, M.D.
 Cheryl B. Pegus, M.D.
 Mark B. Pochapin, M.D.
 Joseph M. Raffaele, M.D.
 Paul F. Riska, M.D.
 Rita M. Rossi-Foulkes, M.D.
 Linda A. Russell, M.D.
 Robert W. Schuman, M.D.
 Richard F. Scofield, M.D.
 Michael G. Sensen, M.D.
 Warren D. Shlomchik, M.D.
 Robert F. Spiera, M.D.
 Megan Mae Terwilliger, M.D.
 John A. Venditto, M.D.
 Jesse Wagner, M.D.
 Suzanne B. Weiner, M.D.
 Neil J. Weissman, M.D.
 David T. Wong, M.D., Ph.D.

Interns

Daniel Baram, M.D.
 Lisa R. Bardack, M.D.
 Scott N. Braunstein, M.D.
 Jean M. Cacciabauda, M.D.
 Felix G. Dailey Sterling, M.D.
 Deborah V. Davis Ascheim, M.D.
 Vidya R. Devarajan, M.D.
 Edward C. Doo, M.D.
 Sara M. Durfee, M.D.
 Robert A. Gabbay, M.D., Ph.D.
 Jeffrey H. Garelick, M.D.
 Catherine Streeto Giess, M.D.
 Flavia A. Golden, M.D.
 Scott L. Gottlieb, M.D.
 Richard M. Hayes, M.D.
 Jeff Hersch, M.D., Ph.D.
 James G. Hoff, M.D.
 Bruce R. Kastin, M.D.
 Melanie S. Kelton, M.D.
 Johanna M. LaSala, M.D.
 Kevin G. Lax, M.D.
 John P. Leonard, M.D.
 Mary Ann McLaughlin, M.D.
 R. Sean Morrison, M.D.
 Paula M. Nelson, M.D.
 Manish A. Parikh, M.D.
 Gregory K. Robbins, M.D.
 Daniel F. Rosberger, M.D., Ph.D.
 William J. Roth, M.D., Ph.D.
 Adam M. Rubinstein, M.D.
 Roy B. Sauberman, M.D.
 Andrew N. Schiff, M.D.

Mary Frances Schubert, M.D.
 Ronit Simantov, M.D.
 Adam R. Stracher, M.D.
 Mae K. Tighe, M.D.
 Frank J. Trudo, M.D.
 Shari-Lynn Umlas, M.D.
 Aaron H. Warshawsky, M.D.
 Robert M. Westlake, M.D.
 Jonathan T. Wolfe, M.D.
 David M. Wolfsohn, M.D.
 Henry D. Wu, M.D.
 Jacques T. Ya Deau, M.D., Ph.D.

Assistant Physicians (Dermatology)

Anita R. Cela, M.D.
 Dorian L. Gravenese, M.D.
 Peter S. Halperin, M.D.
 Laura J. Hellman, M.D.
 Barney J. Kenet, M.D.
 Susan E. Kindel, M.D.
 Deborah Yourish Porges, M.D.
 Margo L. Weishar, M.D.
 John C. Werber, M.D.

Neurology

Medical Staff

Neurologist-in-Chief
 Fred Plum, M.D.

Attending Neurologists

Richard Beresford, M.D.
 Ronald G. Blasberg, M.D.
 John P. Blass, M.D., Ph.D.
 John J. Caronna, M.D.
 Abe M. Chutorian, M.D.
 Kathleen M. Foley, M.D.
 Henn Kutt, M.D.
 Fletcher H. McDowell, M.D.
 Gavril W. Pasternak, M.D., Ph.D.
 Hart de C. Peterson, M.D.
 Jerome B. Posner, M.D.
 William A. Pulsinelli M.D., Ph.D.

Associate Attending Neurologists

Raymond H. Coll, M.D.
 Thomas C. Guthrie, M.D.
 Mark S. Horwich, M.D.
 Gerald H. Klingon, M.D.
 David E. Levy, M.D.
 Frank A. Petito, M.D.
 John A. Schaefer, M.D.
 Gail E. Solomon, M.D.
 Peter Tsairis, M.D.
 Jonathan D. Victor, M.D., Ph.D.
 Bruce T. Volpe, M.D.
 Philip H. Zweifach, M.D.

Assistant Attending Neurologists

Mindy L. Aisen, M.D.
 Denise Barbut, M.B., B.S.
 Ronald S. Black, M.D.
 Jesse M. Cedarbaum, M.D.
 Robert B. Darnell, M.D., Ph.D.
 Lisa M. DeAngelis, M.D.
 David Eidelberg, M.D.
 Steven A. Goldman, M.D., Ph.D.
 Michael Jacewicz, M.D.
 Barry D. Jordan, M.D.
 Douglas R. Labar, M.D., Ph.D.
 Frank S. Lieberman, M.D.
 Mark Malkin, M.D.
 Joelle Mast, M.D.
 Paul L. Moots, M.D.
 Ruth D. Nass, M.D.
 Nancy M. Nealon, M.D.
 Charles P. Pollak, M.D.
 Russell K. Portenoy, M.D.
 Samuel Rapoport, M.D.
 Michael Rubin, M.D.
 Leonard S. Schleifer, M.D., Ph.D.
 Daniel R. Wagner, M.D.
 Russell W. Walker, M.D.

Clinical Affiliate

Dorothy M. Pietrucha, M.D.

Graduate Staff

Clinical Fellows

Alexander P. Auchus, M.D.
Julie E. Hammack, M.D.
John W. Henson, M.D.
Costantino Iadecola, M.D.
Kenneth Maiese, M.D.
Myrna R. Rosenfeld, M.D.
Susan V. Szapiel, M.D.
Meng C. Wong, M.D.

Neurologists

Susan Cohen Pannullo, M.D.
Jeffrey B. Reich, M.D.
Norman R. Relkin, M.D., Ph.D.
Jonathan D. Root, M.D.
Nicholas D. A. Suite, M.D.

Assistant Neurologists

Katherine Ann Albert, M.D., Ph.D.
Ronald D. Chervin, M.D.
Charisse Deutch-Litchman, M.D.
John A. Ferro, M.D.
William S. Herzberg, M.D.
Alan R. Jacobs, M.D.
Michael C. Levin, M.D.
Sylvia M. Lucas, M.D., Ph.D.
Kathleen M. Redington, M.D.
Brion D. Reichler, M.D.
Benjamin M. Segal, M.D.
Rochelle Schiffman Zak, M.D.

Obstetrics and Gynecology

Medical Staff

Obstetrician- and
Gynecologist-in-Chief
William J. Ledger, M.D.

Attending Obstetricians and Gynecologists

Stanley J. Birnbaum, M.D.
Myron I. Buchman, M.D.
Thomas A. Caputo, M.D.
E. William Davis Jr., M.D.
Maurice L. Druzin, M.D.
William P. Given, M.D.
Walter B. Jones, M.D.
John L. Lewis Jr., M.D.
Frederick W. Martens, M.D.
Zev Rosenwaks, M.D.
Richard A. Ruskin, M.D.
S. Francis Ryan, M.D.
Frederick Silverman, M.D.
E. Thomas Steadman, M.D.
William J. Sweeney III, M.D.

Associate Attending Obstetricians and Gynecologists

Ernst G. Bartsch, M.D.
Alan S. Berkeley, M.D.
Alfred Brockunier Jr., M.D.
Ronald M. Caplan, M.D.
Lars L. Cederqvist, M.D.
Frank A. Chervenak, M.D.
Jerome G. Davis, M.D.
William J. Hoskins, M.D.
Bernard N. Nathanson, M.D.
Desider J. Rothe, M.D.
Fouad Surur, M.D.
Yvonne S. Thornton, M.D.
Attila Toth, M.D.
William D. Walden, M.D.
Robert E. Wieche, M.D.

Associate Attending Psychiatrist

John M. Astrachan, M.D.

Assistant Attending Obstetricians and Gynecologists

Diana M. Adams, M.D.
Patricia Yarberry Allen, M.D.
Robert G. Armbruster, M.D.
Thomas J. Armbruster, M.D.
Naef K. Basile, M.D.
Annette L. Bond, M.D.

Anne T. Carlon, M.D.
Deborah M. Cerar, M.D.
Ina N. Cholst, M.D.
Patricia Conrad, M.D.
Kathryn A. Cox, M.D.
Lawrence E. Cutler, M.D.
Owen K. Davis, M.D.
Sona I. Degann, M.D.
Richard J. Derman, M.D.
Sally Faith Dorfman, M.D.
Vincent du Vigneaud Jr., M.D.
Terri Edersheim, M.D.
Christine F. Edwards-Freeman, M.D.
Joseph Finkelstein, M.D.
Wilma Gladstone, M.D.
Gary H. Goldman, M.D.
Margaret J. Graf, M.D.
James A. Grifo, M.D., Ph.D.
Martin Gubernick, M.D.
Enayat Hakim-Elahi, M.D.
Marcia A. Harris, M.D.
J. Milton Hutson, M.D.
Steven R. Inglis, M.D.
Edward I. Jacobson, M.D.
David F. James, M.D.
Radoslav Jovanovic, M.D.
Robert E. Kaye, M.D.
Joan L. Kent, M.D.
Alan A. Kessler, M.D.
Katherine LaGuardia, M.D.
Nancy B. Lebowitz, M.D.
Frederick L. Licciardi, M.D.
Louis J. Lissak, M.D.

Beth G. Marcaccio, M.D.
Hanne T. Meiland, M.D.
Robert N. Melnick, M.D.
Edward K. C. Mok, M.D.
Amen Ness, M.D.
Nicole L. Noyes, M.D.
Gideon G. Panter, M.D.
Joseph I. Paris, M.D.
Reginald T. Puckett, M.D.
David M. Roth, M.D.
Stephen C. Rubin, M.D.
Zoltan I. Saary, M.D.
Robert I. Sassoon, M.D.
Ida Ellen Schwab, M.D.
Gara M. Sommers, M.D.
Michael J. Strongin, M.D.
Miklos Toth, M.D.
William E. Wagner, M.D.
David B. Weinstein, M.D.
Judith C. Wenger, M.D.

Clinical Affiliate

John S. Rienzo, M.D.

Graduate Staff

Obstetricians and Gynecologists
Chris Creatura, M.D.
Garrick H. Leonard, M.D.
Jessica Rosenberg Brown, M.D.
Laura Schiller, M.D.
Audrey M. Seidel, M.D.
Peter T. Simonson, M.D.

Assistant Obstetricians and Gynecologists

Maria C. Asis, M.D.
Rachel A. Bennett, M.D.
Shaun D. Biggers, M.D.
Robert N. Blatman, M.D.
David A. Carcieri, M.D.
Nicole D. Davis, M.D.
Andrea M. Dobrenis, M.D.
Barbara E. Gardner, M.D.
Robert M. Hecht, M.D.
Kathlyn M. Kim, M.D.
John T. Maher, M.D.
Joan M. Mastrobattista, M.D.
Sheila F. Newman, M.D.
E. Quinn Peeper, M.D.
Patricia C. Pollio, M.D.
Mary Lee Rivera, M.D.
Kendall L. Stevinson, M.D.
Helen K. Tubbs, M.D.

Ophthalmology

Medical Staff

Ophthalmologist-in-Chief
D. Jackson Coleman, M.D.

Attending Ophthalmologists

David H. Abramson, M.D.
William C. Cooper, M.D.
Robert M. Ellsworth, M.D.
Ira H. Kaufman, M.D.
Harvey A. Lincoff, M.D.
Alfred E. Mamelok, M.D.
Walter L. Peretz, M.D.
Richard C. Troutman, M.D.
Philip H. Zweifach, M.D.

Associate Attending

Ophthalmologists

Stephen E. Bloomfield, M.D.
Stanley Chang, M.D.
Thomas D. Cherubini, M.D.
Laurence S. Harris, M.D.
Murk-Hein Heinemann, M.D.
David B. Karlin, M.D.
Peter L. Laino, M.D.
Richard S. Muchnick, M.D.
Peter M. Odell, M.D.
David Paton, M.D.
Calvin W. Roberts, M.D.
James S. Schutz, M.D.
Michael B. Starr, M.D.
Suzanne Veronneau, M.D.

Assistant Attending

Ophthalmologists

Dianne Aronian, M.D.
Barry M. Belgorod, M.D.
Sandra C. Belmont, M.D.
Andrew W. Danyluk, M.D.
Martin Ehrenberg, M.D.
Yale L. Fisher, M.D.
Gregory K. Harmon, M.D.
Yaffa Kahanowicz, M.D.
Irene Magramm, M.D.
Rosemarie Fusco Marks, M.D.
Norman B. Medow, M.D.
David B. Pearce, M.D.
Thomas A. Poole, M.D.
Vincent S. Reppucci, M.D.
Olivia N. Serdarevic, M.D.
Jesse Sigelman, M.D.
Kathleen S. Stern, M.D.
James W. Talbot, M.D.
Harold H. Weissman, M.D.
Wayne G. Whitmore, M.D.

Professional-Associate Staff

Physician's Assistant
Lynn Higgins

Graduate Staff

Clinical Fellows
Maria H. Berrocal, M.D.
Cynthia Ann Boxrud, M.D.
Mark R. Comaratta, M.D.

Ophthalmologist

Debra Lea Morrison Prieto, M.D.

Assistant Ophthalmologists

Kip W. Dolphin, M.D.
Kathleen G. A. Gordon, M.D.
Paul C. Keenan Jr., M.D.
Norah S. Lincoff, M.D.
G. Philip Matthews, M.D., Ph.D.
Jacqueline W. Muller, M.D.
Joseph P. Shovlin, M.D.
Morris E. Tilden, M.D.

Otorhinolaryngology

Medical Staff

Acting Otorhinolaryngologist-
in-Chief
W. Shain Schley, M.D.

Attending Otorhinolaryngologist
Simon C. Parisier, M.D.

Associate Attending

Otorhinolaryngologists
Norman J. Pastorek, M.D.
W. Shain Schley, M.D.

Assistant Attending

Otorhinolaryngologists
Vijay K. Anand, M.D.
Anthony DeGennaro, M.D.
Lloyd R. Dropkin, M.D.
David R. Edelstein, M.D.
William F. Flynn, M.D.
Robert A. Guida, M.D.
Milton Ingerman, M.D.
Jacqueline E. Jones, M.D.
Alvin Katz, M.D.
Inocencio C. Kho, M.D.
William I. Kuhel, M.D.
Thomas C. McLure III, M.D.
Samuel Nodelman, M.D.
Raymond L. Soletic, M.D.
Robert C. Wang, M.D.
Robert F. Ward, M.D.
Michael H. Weiss, M.D.

Graduate Staff

Assistant Otorhinolaryngologists
Gurpreet Singh Ahuja, M.B., B.S.
Harry R. Arlis, M.D.
Tam Bui, M.D.

Pathology

Medical Staff

Pathologist-in-Chief
John T. Ellis, M.D.

Attending Pathologists

Daniel R. Alonso, M.D.
Wallace G. Campbell, Jr., M.D.
Aaron Kellner, M.D.
Elmer E. Kramer, M.D.
N. Scott McNutt, M.D.
Myron R. Melamed, M.D.
C. Richard Minick, M.D.
Janet A. Mouradian, M.D.
Carol K. Petito, M.D.
Charles A. Santos-Buch, M.D.
Carl F. W. Wolf, M.D.

Associate Attending Pathologists

M. Lita Alonso, M.D.
Peter G. Bullough, M.D.
June H. Koizumi, M.D.
Powers Peterson, M.D.
Rosemary E. Zuna, M.D.

Assistant Attending Pathologists

Steven M. Erde, M.D., Ph.D.
Juan C. Felix, M.D.
Sarah S. Frankel, M.D.
Thomas A. Godwin, M.D.
Winston G. Harrison, M.D.
Julia G. LaGuette, M.D.
Margret L. S. Magid, M.D.
Michael May, M.D.
William A. Muller, M.D., Ph.D.
Philip G. Prioleau, M.D.
Joseph L. Rayburn, M.D.
Deborah S. Schron, M.D.
Annie M. Strupp, M.D.

Professional-Associate Staff

Professional Associates
Raju S. K. Chaganti, Ph.D.
Renate F. Klein, Ph.D.
Laurence B. Senterfit, Sc.D.

Graduate Staff

Assistant Pathologists
(Dermatopathology)
Diane M. Hoss, M.D.
Christopher R. Shea, M.D.

Assistant Pathologists
 Ilana I. Alvarez-Ramirez, M.D.
 Eileen M. Burrows, M.D.
 Kevin L. Cash, M.D.
 Yao-Tseng Chen, M.D.
 Michael J. Donovan, M.D.
 David J. Eisen, M.D.
 Elaine G. Hom, M.D.
 Andrew B. Kanik, M.D.
 Geraldine A. Mercer, M.D.
 Scott H. Miller, M.D.
 Gerald Minkowitz, M.D.
 Jodi Sassoon, M.D.
 Cornelia Liu Trimble, M.D.
 Diane Wagner, M.D.
 Kathleen D. Whitney, M.D.
 Jonathan R. Zirn, M.D.

Interns

Stephanie Glazer, M.D.
 Mahendra Sharma, M.D.

Pediatrics

Medical Staff

Pediatrician-in-Chief

Maria I. New, M.D.

Attending Pediatricians

Peter A. M. Auld, M.D.
 Abe M. Chutorian, M.D.
 Edward A. Davies, M.D.
 Kathryn H. Ehlers, M.D.
 Mary Allen Engle, M.D.
 James L. German III, M.D.
 Joseph M. Gertner, M.B., B.Ch.
 Margaret W. Hilgartner, M.D.
 Arthur A. Klein, M.D.
 Alfred N. Krauss, M.D.
 Aaron R. Levin, M.D.
 Florence N. Marshall, M.D.
 Rebecca F. Notterman, M.D.
 Richard J. O'Reilly, M.D.
 Hart de C. Peterson, M.D.
 Irwin Rappaport, M.D.
 Alfred L. Scherzer, M.D.
 Mervin Silverberg, M.D.
 David I. Smith, M.D.
 Charlotte T. C. Tan, M.D.

Attending Psychiatrist

Theodore Shapiro, M.D.

Attending Radiologists

Paula W. Brill, M.D.
 Patricia Winchester, M.D.

Associate Attending Pediatricians

A. Milton Arky, M.D.
 Richard R. Bass, M.D.
 Arthur E. Brown, M.D.
 James B. Bussell, M.D.
 Benedict S. Caterinichio, M.D.
 Leon I. Charash, M.D.
 Fredric Daum, M.D.
 Jessica G. Davis, M.D.
 Alan P. DeMayo, M.D.
 Paul J. Edelson, M.D.
 Alvin N. Eden, M.D.
 Murray Engel, M.D.
 John J. Ferry Jr., M.D.
 Jonathan L. Finlay, M.D.
 Zulema Fischbarg, M.D.
 William W. Frayer, M.D.
 Fereshteh Ghavimi, M.D.
 Patricia-Jane Giardina, M.D.
 Fred Gilbert, M.D.
 Eric F. Grabowski, M.D.
 Katherine A. Hajjar, M.D.
 Valerie L. Johnson, M.D., Ph.D.
 Thomas J. A. Lehman, M.D.
 Rudolph L. Leibel, M.D.
 Joseph Levy, M.D.
 Evelyn G. Lipper, M.D.
 Ralph I. Lopez, M.D.
 Andrea Marks, M.D.
 Paul A. Meyers, M.D.
 Ruth D. Nass, M.D.
 Karl Neumann, M.D.
 Daniel A. Notterman, M.D.
 John E. O'Loughlin, M.D.
 Melvin S. Rosh, M.D.
 Ingrid K. Rosner, M.D.
 Myles S. Schiller, M.D.
 William T. Seed, M.D.
 Michael S. Snyder, M.D.
 Gail E. Solomon, M.D.
 Josef Soloway, M.D.
 Phyllis W. Speiser, M.D.
 Laurel J. Steiner, M.D.
 Peter G. Steiner, M.D.

Assistant Attending Pediatricians

Alexander Aledo, M.D.
 Paul M. Baker, M.D.
 Isis A. Bartels, M.D.
 Sabina Bizzoco, M.D.
 Marjorie A. Boeck, M.D., Ph.D.
 Mary Ann Bonilla, M.D.
 Renee M. Brilliant, M.D.
 Bruce J. Brovender, M.D.
 Jeffrey L. Brown, M.D.
 Ralph E. Caprio, M.D.
 Adele Marie Checchi, M.D.
 Thomas M. Connor, M.D.
 (leave of absence)
 Barbara Ann Dash, M.D.
 William John De Bruin, M.D.
 Siddhartha Deb, M.D.
 Barbara A. Dennison, M.D.
 Ann Di Maio, M.D.
 Isabelle Dieudonne-Eid, M.D.
 Miles H. Dinner, M.D.
 Margaret Kelly Downey, M.D.
 M. Catherine Driscoll, M.D.
 Anne E. Dyson, M.D.
 Gloria T. Edis, M.D.
 Nunzia Fatica, M.D.
 Michael P. Fitzgerald, M.D.
 Patrick A. Flynn, M.D.
 Kira A. Geraci-Ciardullo, M.D.
 Alfred P. Gillio III, M.D.
 Andrew L. Gilman, M.D.
 Michael A. Giuliano, M.D.
 Diane M. Gocs, M.D.
 Leonard T. Goslee, M.D.
 Robert J. Gould, M.D.
 Armando E. Grassi, M.D.
 Elizabeth A. Greenfield, M.D.
 Bruce M. Greenwald, M.D.
 Madeleine D. Harbison, M.D.
 Kenneth J. Higgins, M.D.
 Paul Horowitz, M.D.
 Philip W. Hyden, M.D.
 Marta Illueca, M.D.
 Ajey Jain, M.D.
 Stewart Kaplan, M.D.
 Lefkothea Karaviti, M.D., Ph.D.
 Katherine J. Karlsrud, M.D.
 Timothy H. Kenefick, M.D.
 Nancy A. Kernan, M.D.
 Lisa R. Kirsch, M.D.
 Smita R. Kumar, M.D.
 Brian Kushner, M.D.
 Barbara A. Laboard, M.D.
 Alberto Lacois-Petrucelli, M.D.
 Howard Lantz, M.D.
 Nina Louie Lau, M.D.
 Uri Lavy, M.D.
 Michael L. Lewin, M.D.
 Roy H. Lieberman, M.D.
 Nancy T. Mallon, M.D.
 Joelle Mast, M.D.
 Irma M. Matos-Rivera, M.D.
 Reginald D. McLaughlin, M.D.
 Richard G. Merkle, M.D.
 Marie-Jacqueline Moises, M.D.
 Julie Ann Neidich, M.D.
 Elliot M. Newhouse, M.D.
 Meryl F. Newman-Cedar, M.D.
 Gary J. Noel, M.D.
 Steven G. Pavlakis, M.D.
 Cynthia R. Pegler, M.D.
 Dorothy M. Pietrucha, M.D.

Steven Pon, M.D.
 Eric Sin-Kam Poon, M.D.
 Salvatore Presti, M.D.
 Winston S. Price, M.D.
 Edna Anne Pytlak, M.D.
 William J. Rappaport, M.D.
 Arlene Redner, M.D.
 Reuben H. Reiman, M.D.
 Roy J. Rodrigues, M.D.
 Michael Rosenbaum, M.D.
 Andrew S. Rosenblum, M.D.
 Suzanne Rosenfeld, M.D.
 Deborah Sanders-Laufer, M.D.
 Emily A. Schmalzer, M.D.
 Elizabeth Doohar Seaton, M.D.
 Barbara L. Seifert, M.D.
 Alina A. Serdakowska, M.D.
 Beverly A. Sheppard, M.D.
 Jasjit Singh, M.D.
 Donald R. Skog, M.D.
 Cecelia A. Slater, M.D.
 Trudy N. Small, M.D.
 Barney Softness, M.D.
 Gerald M. Spielman, M.D.
 Joel Steckelman, M.D.
 Ralph Stein, M.D.
 Charlotte Steinberg, M.D.
 Mitchell A. Stevens, M.D.
 Elizabeth Stoner, M.D.
 Jerzy A. Szatkowski, M.D.
 Stylianos N. Theofanidis, M.D.
 Claudia Louise Thomas, M.D.
 Mary Y. Y. Tsai, M.D.
 Mirta B. Veber, M.D.
 Russell W. Walker, M.D.
 David J. Weinstock, M.D.
 Jona D. Weiss, M.D.
 Adrienne L. Weiss-Harrison, M.D.
 Janet M. Werkmeister, M.D.
 Donna E. Wiener, M.D.
 Kenneth H. Zatz, M.D.
 Victor M. Zayas, M.D.
 Michele Zerach, M.D.
 David Zigelman, M.D.
 Barbie L. Zimmerman, M.D.

Assistant Attending Psychiatrist

Hans F. Huebner, M.D.

Clinical Affiliates

Levon Agdere, M.D.
 Myron Beer, M.D.
 Norman Berkowitz, M.D.
 Jesus I. Espinoza, M.D.
 Diane B. Gareen, M.D.
 Albert C. Holtzman, M.D.
 Lisa Cooper Hudgins, M.D.
 Yvette Marie Janvier, M.D.
 Elizabeth T. Khuri, M.D.
 Phyllis S. Landau, M.D.
 Robert Rapaport, M.D.
 Florence Wax Schlamm, M.D.
 Ladd Spiegel, M.D.
 Ernest B. Visconti, M.D.
 Perrin C. White, M.D.
 Rausa Yeager-Arbitman, M.D.

Professional-Associate Staff

Associate Attending Psychologist
 Gail Ross, Ph.D.

Assistant Attending Psychologist
 James M. Koelln, Ph.D.

Graduate Staff

Clinical Fellows
 Winslade A. Bowen, M.D.
 Nezh Cereb, M.D.
 J. Mario Cordova, M.D.
 Jennifer F. Cross, M.D.
 Elmer S. David, M.D.
 John D. Donohue Jr., M.D.
 Ira J. Dunkel, M.D.
 Jeffrey M. Factor, M.D.
 Lawrence B. Faulkner, M.D.
 Jane Fong, M.D.
 Frederick C. Garbrecht, M.D.
 Sharon L. Gardner, M.D.

Philip F. Giampietro, M.D.
 Howard M. Grodman, M.D.
 Zilla Huma, M.B., B.Ch.
 Santa J. Johnston, M.D.
 Steven J. Kanengiser, M.D.
 Carole G. Kohen-Diniak, D.O.
 In Sil Lee, M.D.
 Pushpa Mani, M.D.
 John J. Messina, M.D.
 Dorothy Myridakis, M.D.
 Mirjana Nesin, M.D.
 Jihad S. Obeid, M.D.
 Vassilios K. Papadakis, M.D.
 Eduardo M. Perelstein, M.D.
 Sumana Pottipati, M.B., B.S.
 Victor V. Pouw, M.D.
 Kyriakie Sarafoglou, M.D.
 Jorge Luis Serrat, M.D.
 Paul Szabolcs, M.D.
 Grace M. Tannin, M.D.
 Tanya M. Trippett, M.D.
 Ravi R. Verma, M.D.
 Elpis Vlachopapadopoulou, M.D.
 Irwin K. Weiss, M.D.

Pediatricians

Barbara Horan Landreth, M.D.
 Suzanne M. Nelson, M.D.
 Michael A. Rosenberg, M.D.

Assistant Pediatricians

Susan Barasch, M.D.
 David A. Bross, M.D.
 Charles L. Bruzzzone, M.D.
 Elizabeth M. Calleja, M.D.
 Diane M. Cicatello, M.D.
 Renee L. Davis, M.D.
 Mariette Dermendjian, M.D.
 Mary T. Donofrio, M.D.
 Maria L. Fabre, M.D.
 Najla N. Falaki, M.B., B.Ch.
 Glenn Flores, M.D.
 Maura D. Frank, M.D.
 Tracy A. Gallagher, M.D.
 Lance R. Goodman, M.D.
 Ciro T. Grello, M.D.
 Sima A. Habib, M.D.
 Andrew C. Hirsch, M.D.
 Michael L. Holdeman, M.D.
 Kenneth H. Jacobson, M.D.
 Grace Kim, M.D.
 Genevieve M. Krebs-Fernandez, M.D.
 Christine A. Lambiris, M.D.
 Paul J. Lee, M.D.
 Steven J. Lobritto, M.D.
 Andrea G. Maitlin, M.D.
 Eric B. Mallow, M.D.
 Rodrigo Mejia-Perez, M.D.
 Lenora M. Noroski, M.D.
 Anthony F. Nostro, M.D.
 Shari L. Platt, M.D.
 Robert E. Rosenberg, M.D.
 Rita M. Rossi-Foulkes, M.D.
 Ronald C. Samuels, M.D.
 Ibrahim S. Shamieh, M.D.
 Marie Reohr Whiteside, M.D.
 Marlene J. Wust, M.D.
 Alex G. Yip, M.D.

Interns

Sheeja K. Abraham, M.D.
 Lena D. Eisenberg Baram, M.D.
 Amy B. Berkman, M.D.
 Annette Delgado, M.D.
 Vidya R. Devarajan, M.D.
 Barbara B. Galantowicz, M.D.
 Sara J. Hatfield, M.D.
 Lisanne C. Hauck, M.D.
 Jeff Hersh, M.D., Ph.D.
 Judith H. Janz, M.D.
 Rosemary S. Johann, M.D.
 Cynthia Lewis, M.D.
 Nancy Jo Lippman, M.D.
 Debra S. Malley, M.D.
 Robert L. Ochs, M.D.
 Marjorie E. Rush, M.D.
 Lisa E. Scofield, M.D.
 Natasha A. Tzagoloff, M.D.

Psychiatry

Medical Staff

Psychiatrist-in-Chief
Robert Michels, M.D.

Attending Psychiatrists

Stuart S. Asch, M.D.
Jose Barchilon, M.D.
Jules R. Bemporad, M.D.
H. Robert Blank, M.D.
Arnold M. Cooper, M.D.
Aaron H. Esman, M.D.
Frederic F. Flach, M.D.
Lawrence Friedman, M.D.
William A. Frosch, M.D.
Sheldon Gaylin, M.D.
James G. Gibbs Jr., M.D.
Ira D. Glick, M.D.
Katherine A. Halmi, M.D.
Jimmie C. B. Holland, M.D.
Richard A. Isay, M.D.
Helen S. Kaplan, M.D.
Otto F. Kernberg, M.D.
Gerald L. Klerman, M.D.
James F. Masterson, M.D.
Rene C. Mastrovito, M.D.
Robert B. Millman, M.D.
Richard L. Munich, M.D.
Wayne A. Myers, M.D.
Samuel W. Perry III, M.D.
Cynthia R. Pfeffer, M.D.
Jacques M. Quen, M.D.
Clifford J. Sager, M.D.
Charles A. Shamoian, M.D.
Theodore Shapiro, M.D.
Stefan P. Stein, M.D.
Peter E. Stokes, M.D.
Kenneth Tardiff, M.D.
Milton Viederman, M.D.

Attending Psychiatrist

(Behavioral Science)
Gerard P. Smith, M.D.

Attending Physician

Abdol H. Samiy, M.D.

Associate Attending Psychiatrists

Robert C. Abrams, M.D.
Gerard Addonizio, M.D.
George S. Alexopoulos, M.D.
Ann H. Appelbaum, M.D.
John M. Astrachan, M.D.
Bruce L. Ballard, M.D.
Hyam Bolocan, M.D.
Alexander R. Broden, M.D.
J. Warren Brown, M.D.
Ruth D. Bruun, M.D.
Edwin H. Church, M.D.
John F. Crow, M.D.
E. Gerald Dabbs, M.D.
Andre Dupuis, M.D.
Stuart R. Edelson, M.D.
Morton S. Eisenberg, M.D.
Alice K. Frankel, M.D.
Mio Fredland, M.D.
Stewart Gabel, M.D.
Rodman Gilder, M.D.
Richard Glass, M.D.
Roger B. Granet, M.D.
Robert S. Grayson, M.D.
Fady Hajal, M.D.
Lawrence J. Hatterer, M.D.
Margaret E. Hertzog, M.D.
Malcolm Hill, M.D.
Peter T. Janulis, M.D.
Thomas P. Kalman, M.D.
Saul E. Kapel, M.D.
Marilyn G. Karmason, M.D.
Paulina F. Kernberg, M.D.
M. Dorothea Kerr, M.D.
Howard D. Kibel, M.D.
Ari Kiev, M.D.
James H. Kocsis, M.D.
Harold W. Koenigsberg, M.D.
L. Gerald Laufer, M.D.

Marguerite S. Lederberg, M.D.

Henry J. Lefkowitz, M.D.
Alfred B. Lewis, M.D.
Edward Y. Liang, M.D.
Edgar L. Lipton, M.D.
Laurence Loeb, M.D.
Mary Jane Massie, M.D.
Marlin R. Mattson, M.D.
Barnett S. Meyers, M.D.
Frank T. Miller, M.D.
Saverio G. Mortati, M.D.
Edward Nersessian, M.D.
James E. Nininger, M.D.
Yehuda Nir, M.D.
Winfred Overholser, M.D.
Joshua M. Perman, M.D.
Richard Rabkin, M.D.
Lawrence H. Rockland, M.D.
Ellen B. Rowntree, M.D.
Michael H. Sacks, M.D.
Jesse Schomer, M.D.
Michael A. Selzer, M.D.
Sally K. Severino, M.D.
David A. Shapiro, M.D.
M. Katherine Shear, M.D.
James H. Spencer Jr., M.D.
Tom G. Stauffer, M.D.
Jorge Steinberg, M.D.
John J. Stine, M.D.
Norman Straker, M.D.
Virginia Susman, M.D.
Charles R. Swenson, M.D.
John S. Tamerin, M.D.
Kenneth G. Terkelsen, M.D.
Jack Terry, M.D.
Daniel Weitzner, M.D.
Peter G. Wilson, M.D.
Charles Winkelstein, M.D.
Robert C. Young, M.D.

Associate Attending Neurologists

Charles P. Pollak, M.D.
Gail E. Solomon, M.D.

Assistant Attending Psychiatrists

Helen K. Abramowicz, M.D.
Donald J. Adams, M.D.
Robert C. Ascher, M.D.
Elizabeth L. Auchincloss, M.D.
Sarah S. Auchincloss, M.D.
Ralph Baker, M.D.
Alan Barasch, M.D.
Joseph Barbuto, M.D.
Judith L. Berg, M.D.
Henry Berger, M.D.
Robert J. Berlin, M.D.
Marvin B. Blitz, M.D.
Joerg Bose, M.D.
William Breitbart, M.D.
Lynne M. Brody, M.D.
Ross B. Brower, M.D.
William Burten, M.D.
Thomas A. Butler, M.D.
Giovanni Caracci, M.D.
Robert Catenaccio, M.D.
Theodore Cherbuliez, M.D.
Irene Chiarandini, M.D.
Cornelius J. Clark, M.D.
Donald Cohen, M.D.
Ruth Cohen, M.D.
Moitri Nath Datta, M.D.
Helen Davidoff-Hirsch, M.D.
Joseph A. Deltito, M.D.
Cheryl B. Diamond, M.D.
Mary V. DiGangi, M.D.
Jane B. Doller, M.D.
Nathaniel Donson, M.D.
Thomas L. Doyle Jr., M.D.
Jack Dunietz, M.D.
Eli Einbinder, M.D.
Daniel Feinberg, M.D.
Ellen F. Flynn, M.D.
Richard A. Friedman, M.D.
Vivian Fromberg, M.D.
Minna R. Fyer, M.D.
Richard E. Gallagher, M.D.

Charles S. Gardner, M.D.
Bruce Gilbert, M.D.
Karen Gilmore, M.D.
Margaret M. Gilmore, M.D.
Allan B. Gistrak, M.D.
Marianne R. Goldberger, M.D.
Edward L. Greene, M.D.
John A. R. Grimaldi Jr., M.D.
Lawrence E. Grolnick, M.D.
H. Omar Gutierrez, M.D.
Marion G. Hart, M.D.
Stephen P. Herman, M.D.
Daniel N. Hertz, M.D.
Judith Herzig, M.D.
Richard K. Hill, M.D.
Leon Hoffman, M.D.
Karen Hopenwasser, M.D.
Hans F. Huebner, M.D.
Irene G. Hyler, M.D.
George D. Igel, M.D.
Pamela S. Ingber, M.D.
Lawrence Jacobsberg, M.D.
Wendy Jacobson, M.D.
Richard Kaiser, M.D.
Balkrishna Kalayam, M.D.
Norman L. Kaplan, M.D.
Richard D. Kaplan, M.D.
Nathaniel P. Karush, M.D.
Ruth K. Karush, M.D.
Kevin V. Kelly, M.D.
Hae A. Kim, M.D.
Kenneth S. Kirstein, M.D.
Barry Korey, M.D.
Allison B. Landolt, M.D.
Lynna M. Lesko, M.D.
Patrizia A. Levi, M.D.
Arthur Lew, M.D.
Bruce A. Lieberman, M.D.
Jerome H. Liebowitz, M.D.
Stanley Lituchy, M.D.
Erica M. Loutsch, M.D.
M. Philip Luber, M.D.
John J. Lucas Jr., M.D.
Richard L. Malen, M.D.
Alan Z. A. Manevitz, M.D.
Donna Manning, M.D.
John C. Markowitz, M.D.
Peter M. Marzuk, M.D.
P. Anne McBride, M.D.
James M. McGowan, M.D.
Edith McNutt, M.D.
Norman S. Miller, M.D.
Ahmed Mobarak, M.D.
Ildiko Mohacsy, M.D.
Leonard M. Moss, M.D.
Abbas D. Nahas, M.D.
Draupathi E. Nambudiri, M.D.
Michael J. Napoliello, M.D.
Ronald Neschis, M.D.
E. Scott Nininger, M.D.
(leave of absence)
Henry Nunberg, M.D.
Barbara E. O'Connell, M.D.
Avodah K. Offit, M.D.
Lynda M. Parker, M.D.
Edward L. Parsons, M.D.
John T. Patten, M.D.
Samuel L. Pauker, M.D.
Sherman S. Pazner, M.D.
Vivian S. B. Pender, M.D.
Mervyn M. Peskin, M.D.
Nancy M. Peters, M.D.
Ellen R. Peyser, M.D.
Shubha Phansalkar, M.D.
Arthur Phillips, M.D.
H. Jonathan Polan, M.D.
Leslie Prusnoffsky, M.D.
Edwin L. Rabiner, M.D.
Aylin Radomski, M.D.
David B. Robbins, M.D.
Jay B. Rohrlach, M.D.
Steven Gary Ross, M.D.
Steven D. Roth, M.D.
Mark Rubinstein, M.D.
Gary H. Rusk, M.D.
Mark J. Russ, M.D.

Eslee Samberg, M.D.
(leave of absence)
George K. Samios, M.D.
Barry J. Saul, M.D.
Jonah W. Schein, M.D.
Joan Schmugler, M.D.
Arthur H. Schore, M.D.
Edward E. Seelye, M.D.
S. Warren Seides, M.D.
Robert Silbert, M.D.
Mae S. Sokol, M.D.
Mark A. Spiegel, M.D.
Max Spital, M.D.
Irving Sternschein, M.D.
Timothy B. Sullivan, M.D.
Lisa Tallal, M.D.
Joan Tolchin, M.D.
Paul V. Trad, M.D.
Paul D. Trautman, M.D.
Sherwood Waldron Jr., M.D.
Marvin D. Wasserman, M.D.
Henriette L. Wayne, M.D.
Steven J. Wein, M.D.
Hazel Weinberg, M.D.
Alex Weintrob, M.D.
David J. Weiser, M.D.
Richard W. Weiss, M.D.
William Weiss, M.D.
Philip J. Wilner, M.D.
Lynn C. Winther, M.D.
Frank E. Yeomans, M.D.

Assistant Attending Physicians

Wilhelmina V. Akman, M.D.
Robert E. Lee, M.D.
Avner Reggev, M.D.

Assistant Attending Neurologist

Daniel R. Wagner, M.D.

Assistant Attending Pediatrician

Jeffrey L. Brown, M.D.

Clinical Affiliates

Shelley F. Aarons, M.D.
Peter J. Acker, M.D.
Tedd H. Ackerman, M.D.
Carl E. Anderson, M.D.
Jane Asch, M.D.
Rotimi I. Bajulaiye, M.D.
Anna Balas, M.D.
John W. Barnhill, M.D.
Jeffrey D. Bedrick, M.D.
Estelle P. Bender, M.D.
Hope Berkeley, M.D.
Norman Berkowitz, M.D.
David K. Bloomgarden, M.D.
Stephanie A. Brandt, M.D.
David S. Breindel, M.D.
Richard H. Brent, M.D.
Nora Brockner, M.D.
David M. Brody, M.D.
James E. Burris Jr., M.D.
Fredric N. Busch, M.D.
Christopher T. Cahenzli, M.D.
Roger Cambor, M.D.
Babette B. Caraccio, M.D.
Janis Chester, M.D.
Sandra Kopit Cohen, M.D.
David H. Conney, M.D.
Sheila Ann Cooperman, M.D.
Henry F. Dawes, M.D.
Michael D. De Meo, M.D.
Robert J. Doherty, D.D.S.
Rebecca Dulit, M.D.
Judith Ebenstein, M.D.
Juan C. Echevarria, M.D.
Birgit K. Elias, M.D.
Robert B. Fath Jr., M.D.
Lawrence G. Fischman, M.D.
Taryn Fishman, M.D.
Scott J. Goldsmith, M.D.
Malcolm Gordon, M.D.
Malcolm S. Graham, D.D.S.
Joel Greenspan, M.D.
Henry H. Guy, M.D.
A. Matthew Hilmi, M.D.
Lynne Hoffman, M.D.
Ellen L. Hollander, M.D.

Marc A. Horowitz, M.D.
 James T. Howard Jr., M.D.
 Melissa Hunt, M.D.
 Charles G. Huntington, M.D.
 Lynne R. Jacobs, M.D.
 Gurmeet S. Kanwal, M.D.
 Stephen B. Kardon, M.D.
 Susan S. Kemker, M.D.
 Hiten V. Kisnad, M.D.
 Richard Kogan, M.D.
 Nathan Kravis, M.D.
 Michael M. Lee, M.D.
 Phillip Lee, M.D.
 Elena G. Lister, M.D.
 Philip N. Lister, M.D.
 Andrew N. Looker, M.D.
 Ruth Lubelski, M.D.
 Judith Lusic, M.D.
 John C. Mahler Jr., M.D.
 Deborah B. Marin, M.D.
 Richard H. McCarthy, M.D.
 Barry A. Meisel, M.D.
 William J. Miles, M.D.
 Indu Mirchandani, M.D.
 Charles J. Morosini, M.D.
 John B. Moses, M.D.
 Stuart T. Nevins, M.D.
 Piero O. Niceta, M.D.
 Mark Olsson, M.D.
 Sharone Ornstein, M.D.
 Alison Orr-Andrews, M.D.
 Lawrence D. Orvieto, D.D.S.
 Avtandil Papiasvili, M.D.
 Edward M. Paul, M.D.
 Paul Pechman, M.D.
 David Pelino, M.D.
 Brian D. Poeschla, M.D.
 Dionne R. Powell, M.D.
 Charles P. Ramesar, M.D.
 John A. Ramsdell, M.D.
 Anthony O. Rebholz Jr., D.M.D.
 Jean Roiphe, M.D.
 Steven J. Romano, M.D.
 Phillip E. Romero, M.D.
 Margot S. Rubinstein, M.D.
 Marie G. Rudden, M.D.
 Gyorgy A. Sagi, M.D.
 Larry S. Sandberg, M.D.
 Elissa M. Sanders, M.D.
 Michael B. Saul, D.M.D.
 David H. Sawyer, M.D.
 Lynn Schackman, M.D.
 Mark A. Scher, M.D.
 Ann W. Schongalla, M.D.
 Ludovit Sevcik, M.D.
 Pamela Felder Sicher, M.D.
 Mary Sickles, M.D.
 Howard B. Simon, M.D.
 Lisa Sinsheimer, M.D.
 Thomas E. Smith, M.D.
 Ladd Spiegel, M.D.
 Gabriel K. Tsuboyama, M.D.
 Traer Van Allen, M.D.
 Heidi Van Bellingham, M.D.
 Mary G. Versfelt, M.D.
 Carol W. Weinstein, M.D.
 Carol J. Weiss, M.D.
 Renee Welner, M.D.
 Martin Wilner, M.D.
 Rande Sue Wysoki, M.D.
 Donna D. Yi, M.D.
 Eric K. Zitzmann, M.D.

Clinical-Associate Staff

Attending Psychologists
 Michael Beldoch, Ph.D.
 John F. Clarkin, Ph.D.
 Herbert Fensterheim, Ph.D.
 Walter Kass, Ph.D.
 Lee Salk, Ph.D.
 Herbert J. Schlesinger, Ph.D.

Associate Attending Psychologists

Anna M. Antonovsky, Ph.D.
 Gilbert J. Botvin, Ph.D.
 M. David Clayson, Ph.D.

Stephen W. Hurt, Ph.D.
 Herbert H. Krauss, Ph.D.
 Bernard Landis, Ph.D.
 Ruth F. Lax, Ph.D.
 Armand W. Loranger, Ph.D.
 Steven Mattis, Ph.D.
 Melvin Muroff, Ph.D.
 Michel Radomski, Ph.D.
 William H. Redd, Ph.D.
 Gail Ross, Ph.D.
 John M. Ross, Ph.D.
 Fred Schwartz, Ph.D.
 Jonathan H. Weiss, Ph.D.
 Muriel C. Winestine, Ph.D.
 Muriel Zimmerman, Ph.D.

Assistant Attending Psychologists

William H. Berman, Ph.D.
 June E. Blum, Ph.D.
 Thomas B. Boland, Ph.D.
 Susan Bram, Ph.D.
 Betty Buchsbaum, Ph.D.
 Monica Carsky, Ph.D.
 (leave of absence)
 Audrey J. Clarkin, Ph.D.
 Marylene Cloitre, Ph.D.
 Martin V. Cohen, Ph.D.
 Jonas Cohler, Ph.D.
 Peter Deri, Ph.D.
 Louis J. DeStefano, Ph.D.
 Katie Eisenstadt, Ph.D.
 Ellen A. Farber, Ph.D.
 Jerome L. Fine, Ph.D.
 Priscilla H. Fishler, Ph.D.
 Baruch Fishman, Ph.D.
 Mary M. Fitzpatrick, Ph.D.
 Howard I. Glazer, Ph.D.
 George Greenberg, Ph.D.
 Edward R. Greenblatt, Ph.D.
 James W. Hull, Ph.D.
 Paul B. Jacobsen, Ph.D.
 Stephen C. Josephson, Ph.D.
 Priscilla F. Kauff, Ph.D.
 Jerry Lanoil, Ph.D.
 Zoe L. Lazar, Ed.D.
 Alexander H. Levi, Ph.D.
 David A. Lord, Ph.D.
 I. Barry Lorinstein, Ph.D.
 Mary A. Luallen, Ph.D.
 Barbara J. Mason, Ph.D.
 Eric Mendelsohn, Ph.D.
 Sharon G. Nathan, Ph.D.
 Michael A. Perelman, Ph.D.
 Deborah A. Perlick, Ph.D.
 William Picker, Ph.D.
 Stephen Reich, Ph.D.
 James C. Rembar, Ph.D.
 Michael G. Rothenberg, Ph.D.
 Edward J. Schork Jr., Ph.D.
 Margaret E. Snow, Ph.D.
 Roger J. Sowala, Ph.D.
 Lyle Tucker, Ph.D.
 Alan S. Weiner, Ph.D.
 Jutta V. Weiss, Ph.D.

Professional Associates (Psychology)

Kenneth Barish, Ph.D.
 Saralea E. Chazan, Ph.D.
 Neill S. Cohen, Psy.D.
 Roni O. Cohen, Ph.D.
 Anne K. Criticos, Ph.D.
 Diana Diamond, Ph.D.
 Jeanne C. Dietrich, Ph.D.
 Alan F. Dubro, Ph.D.
 Carolyn Feigelson, Ph.D.
 Marta Pearl Flaum, Ph.D.
 Barbara L. Flye, Ph.D.
 Robin E. Gibbs, Ph.D.
 N. Denise Gilliam, Ph.D.
 William L. Golden, Ph.D.
 Lisa K. Gornick, Ph.D.
 Meredith Gould, Ph.D.
 Laura Josephs, Ph.D.
 Melanie A. Katzman, Ph.D.
 Robert S. Kruger, Ph.D.
 Harriet N. Mischel, Ph.D.

Cynthia J. Sanderson, Ph.D.
 Martin N. Seif, Ph.D.
 Phyllis L. Sloate, Ph.D.
 Elaine H. Tulis, Ph.D.
 Susan Wagner, Ph.D.
 Tania Zazula, Ph.D.

Professional Associates (Psychiatry)

Bonnie Gitlin, M.S.W.
 Ruth K. Goodman, M.S.W.
 Norma S. Hakusa, M.S.W.
 Elaine Kleinbart, M.S.W.
 Verena Michels, M.S.W.
 Arlene Novick, M.S.W.
 Mary Jenness Raine, Ph.D.
 Saul D. Raw, M.S.W.
 Estelle T. Rosen, M.S.W.
 Nina Shilling, M.S.W.
 Doris M. Sisley, M.S.W.
 Frances D. Thurston, M.S.W.
 Phyllis Uрман-Klein, Ph.D.

Professional Associate (Podiatry)

John Cappa, D.P.M.

Graduate Staff,

Payne Whitney Psychiatric Clinic

Clinical Fellows

Robert J. Penzer, M.D.
 Kenneth P. Rosenberg, M.D.

Psychiatrist

Leonard C. Groopman, M.D.

Assistant Psychiatrists

(Child Psychiatry)

Tamela M. Amiri, M.D.
 William D. Becker, M.D.
 Alexander D. Kalogerakis, M.D.
 David A. Mitnick, M.D.
 Ellen K. Schlefer, M.D.
 Audrey M. Walker, M.D.

Assistant Psychiatrists

Karen A. Abrams, M.D.
 Stewart L. Adelson, M.D.
 Seth G. Aidinoff, M.D.
 Linda C. Barr, M.D.
 Shelly Berger-Mitnick, M.D.
 Lawson F. Bernstein Jr., M.D.
 Amy Lynn Bloch, M.D.
 Hilary P. Blumberg, M.D.
 Jane I. Epstein, M.D.
 Ann O. S. Fels, M.D.
 Julie L. Fudge, M.D.
 Elizabeth H. Gery, M.D.
 Lauren T. Goldstein, M.D.
 Robert G. Goldstein, M.D.
 Julia A. Golier, M.D.

Daniel W. Goodman, M.D.

Jeanne E. Greenblatt, M.D.

Anne McLean Griffin, M.D.

Barri L. Katz, M.D.

Susan S. Kirsch, M.D.

Donna E. Lewinter, M.D.

George J. Makari, M.D.

Daniel C. Mierlak, M.D., Ph.D.

Antonia S. New, M.D.

Mitchell D. Newmark, M.D.

Ann B. Oribe, M.D.

Bruce W. Phariss, M.D.

Karen Jeanne Prowda, M.D.

Eve H. Rice, M.D.

Eva C. Ritvo, M.D.

Robert A. Root, M.D.

Bruce E. Rubinstein, M.D.

Gail M. Saltz, M.D.

David A. Silbersweig, M.D.

Lisa Sombrotto, M.D.

Margaret Gail Spinelli, M.D.

Beverly Jean Stoute, M.D.

Holly A. Swartz, M.D.

Judith Hertz Tanenbaum, M.D.

Helen Tierney, M.D.

Wayne A. Ury, M.D.

Robert L. Wolski, M.D.

Caryl E. Yanow, M.D.

Graduate Staff, Westchester Division

Psychiatrist

Bennett L. Solnick, M.D.

Assistant Psychiatrists

(Child Psychiatry)

Susan J. Finkelstein, M.D.
 Richard A. Flamberg, M.D.
 Esther Jacobowitz, M.D.
 Karl M. Kessler, M.D.
 Carla M. Polcyn, M.D.

Assistant Psychiatrists

Larry V. Amsel, M.D.
 Debra A. Appel, M.D.
 Beth M. Belkin, M.D., Ph.D.
 Betsy Jo Bittman, M.D.
 Devra Braun, M.D.
 Melanie Beth Cane, M.D.
 Cathy Canepa, M.D.
 Henry Chung, M.D.
 Camellia P. Clark, M.D.
 M. Bridget Downes, M.D.
 Eric M. Grabstein, M.D.
 Rita J. Grogan, M.D.
 Kathryn Grunes, M.D.
 Richard A. Hahn, M.D.
 Frances Gaines Haxton, M.D.
 Nancy C. Horowitz, M.D.

Amy Carol Ice, M.D.
 R. Matthew Kamins, M.D.
 James R. Kates, M.D.
 Mary K. Kentros, M.D.
 Charles C. Kim, M.D.
 Michael R. Kronen, M.D.
 Sonia O. Kulchysky, M.D.
 Alexander C. L. Lerman, M.D.
 L. Jane Macdonnell, M.D.
 Robert A. Moran, M.D.
 Marcia Delman Morris, M.D.
 Charlotte Nganele, M.D.
 Helen C. Panarites, M.D.
 Joanne G. Parks, M.D.
 Burton Presberg, M.D.
 Ilene Rabinowitz, M.D.
 Christian J. Sarra, M.D.
 Ora E. Sherman, M.D.
 Tara L. Sherman, M.D.
 Anthony J. Stern, M.D.
 Denise Szczucki, M.D.
 Bradford M. Tepper, M.D.
 Michele K. Wahl, M.D.
 Meredith C. Walgren, M.D.
 Barbara E. Ziv, M.D.

Radiology

Medical Staff

Radiologist-in-Chief

Joseph P. Whalen, M.D.

Attending Radiologists

Mostafa A. Batata, M.D.
 David V. Becker, M.D.
 Richard S. Benua, M.D.
 Paula W. Brill, M.D.
 Florence Chieh-Hwa Chu, M.D.
 Michael D. F. Deck, M.B., B.S.
 John A. Evans, M.D.
 Robert H. Freiburger, M.D.
 Amy Beth Goldman, M.D.
 Antonio F. Govoni, M.D.
 David B. Hayt, M.D.
 Jeremy J. Kaye, M.D.
 Elias Kazam, M.D.
 Lourdes Nisce, M.D.
 Helene Pavlov, M.D.
 Nathan Poker, M.D.
 Thomas A. Sos, M.D.
 Patricia Winchester, M.D.
 Robert D. Zimmerman, M.D.

Associate Attending Radiologists

Bernard Ghelman, M.D.
 Claudia I. Henschke, M.D.

James R. Hurley, M.D.
John A. Markisz, M.D.
William A. Rubenstein, M.D.
Robert Schneider, M.D.
George Stassa, M.D.
Hind S. Teixidor, M.D.

Assistant Attending Radiologists

Steven A. Albert, M.D.
Barbara Lucile Binkert, M.D.
Georgia A. Cataldi, M.D.
Patricia E. Cole, M.D.
Sheila D. Davis, M.D.
Jasbir Grewal, M.D.
Alison Bender Haimes, M.D.
Andrew W. Haraway Jr., M.D.
Linda A. Heier, M.D.
James C. Hirschy, M.D.
Marcy B. Jagust, M.D.
Bennett J. Kashdan, M.D.
Richard J. Katz, M.D.
Young Sook Kim, M.D.
Peter A. Kosovsky, M.D.
George Krol, M.D.
Susan C. Kryszewicz, M.D.
Miriam Levy-Ravetch, M.D.
Charlynn C. Maniatis, M.D.
Robert W. Perone, M.D.
Richard B. Rafal, M.D.
Scott J. Sherman, M.D.
Karen Weingarten, M.D.
David A. Wojtasek, M.D.
David F. Yankellevitz, M.D.

Professional-Associate Staff

Attending Physicist

(Nuclear Medicine)
Rodney E. Bigler, Ph.D.

Assistant Attending Physicist

(Nuclear Medicine)
Pat Zanzonico, Ph.D.

Professional Associate (Physics)

Stephen Balter, Ph.D.

Graduate Staff

Clinical Fellows
Luigi Arena, M.D.
Antonio G. Bermudez, M.D.
Gerard A. Compito, M.D.
Stephen J. Dick, M.D.
Shulamith Goldberg, M.D.
Jay G. Hochstein, M.D.
Man Hon, M.D.
Thomas P. Kaufmann, M.D.
Bette J. Nyhlen, M.D.
Bernard B. O'Malley, M.D.
John Oh, M.D.
Cheng Hoon Ow, M.D.
Hollis G. Potter, M.D.
Mostafa R. Sadjadi, M.D.
Mitchell C. Tannenbaum, M.D.
Buckley J. terPenning, M.D.
David W. Trost, M.D.
Wendalyn M. Williams, M.D.

Assistant Radiologists (Nuclear Medicine)

Wei Wen Sung, M.D.
Chi Keung Tsang, M.D.

Assistant Radiologists

Christel J. Bauer, M.D.
Bradford A. Bottger, M.D.
Jack E. Burson, M.D.
Ana G. Cajade, M.D.
Gail A. Calamari, M.D.
Betty Ann Caravella, M.D.
Chris E. Chernesky, M.D.
William D. Donovan, M.D.
Gail E. Eddens, M.D.
Robert J. Ernst, M.D.
Roger J. Frey, M.D.
James F. Gruden, M.D.
Douglas E. Hertford, M.D.
Richard S. Jennis, M.D.
Marc L. Jouandet, M.D.

Ronald A. Manfredi, M.D.
Eileen T. McGlynn, M.D.
Edward L. Milano, M.D.
Ruth E. Moran, M.D.
Elizabeth A. Morris, M.D.
Levon N. Nazarian, M.D.
Steven R. Olson, M.D.
Lawrence H. Schwartz, M.D.
Emily Stern, M.D.
Dennis R. Swearengin, M.D.
Jody Lee Tanabe, M.D.

Rehabilitation Medicine

Medical Staff

Physiatrist-in-Chief

Willibald Nagler, M.D.

Associate Attending Physiatrist

Ronald F. Green, M.D.

Assistant Attending Physiatrists

Michael J. Brennan, M.D.
Sheryl R. Levin, M.D.
Irene von Estorff, M.D.

Clinical Affiliates

Irina Barkan, M.D.
Andrew D. Brown, M.D.
Sanders W. Davis, M.D.
Subhadra L. Nori, M.B.,B.S.
Isabella Maria Rampello, M.D.
Dae-Sik Rho, M.D.
Peter H. Stern, M.D.

Professional-Associate Staff

Professional Associates

John S. Ferrari
Delia Gorga, Ph.D.
Marshall A. Hagins
Roberta Y. Hawkins
Susan D. Koski
H. Richard Lehneis, Ph.D.
Janet Mines
Dorene Tellerman
Lydia Wingate, Ph.D.

Professional Associate (Podiatry)

Michael Polchaninoff, D.P.M.

Graduate Staff

Assistant Physiatrists

Susana G. Duncan, M.D.
Neal R. Dunkelman, M.D.
Beverly A. Giannotto, M.D.
Dorothea M. Gribbin, M.D.
Elisabeth A. Lachmann, M.D.
Kevin Scott Ladin, M.D.
Steven G. Marini, M.D.
Richard Tunkel, M.D.
Benjamin S. Warfel II, M.D.

Surgery

Surgeon-in-Chief

G. Tom Shires, M.D.

General Surgery

Medical Staff

Attending Surgeons

Roy H. Ashikari, M.D.
Murray F. Brennan, M.D.
Jerome J. Decosse, M.D.
Philip R. Exelby, M.D.
John L. Madden, M.D.
Walter F. Pizzi, M.D.
S. Frank Redo, M.D.
Albert L. Rubin, M.D.
Kurt H. Stenzel, M.D.
George E. Wantz, M.D.
John C. Whitsell II, M.D.

Associate Attending Surgeons

Anthony C. Antonacci, M.D.
Philip S. Barie, M.D.
Harry L. Bush Jr., M.D.
Jhoong S. Cheigh, M.D.
Armand F. Cortese, M.D.
John Mihan Davis, M.D.
Cleon W. Goodwin, M.D.
Peter M. Guida, M.D.
Alexander E. Kuehl, M.D.
Stephen F. Lowry, M.D.
Vincent F. Marzulli, M.D.
Kevin P. Morrissey, M.D.
Michael P. Osborne, M.D.
Robert R. Riggio, M.D.
Stuart D. Saal, M.D.
Michael F. Silane, M.D.
Paul A. Skudder, M.D.
Barry H. Smith, M.D., Ph.D.
William T. Stubenbord, M.D.
John F. Sullivan, M.D.
Luis Tapia, M.D.
Roger W. Yurt, M.D.

Assistant Attending Surgeons

John M. Aronian III, M.D.
Fadi F. Attiye, M.D.
Adolfo M. Ayuyao, M.D.
Anthony C. Cahan, M.D.
James L. Clarke, M.D.
Hiram S. Cody III, M.D.
Robert Paul Cordone, M.D.
William T. Curry, M.D.
Richard A. Dietrich, M.D.
Gary A. Fantini, M.D.
Jerome Finkelstein, M.D.
Gregory Fried, M.D.
Richard M. Friedman, M.D.
James P. Gaston, M.D.
Paul H. Halebian, M.D.
Michael P. LaQuaglia, M.D.
Michael R. Madden, M.D.
Michael A. Marano, M.D.
Carmine J. Mauro, M.D.
Joseph A. McAuley, M.D.
Timothy S. Melester, M.D.
Eugene J. Nowak, M.D.
Michael Reich, M.D.
Denise Carol Semashko, M.D.
Harry Statman, M.D.
John C. L. Wang, M.D.
Giles F. Whalen, M.D.
Alan P. Zeitlin, M.D.

Clinical Affiliate

David A. Mayer, M.D.

Professional-Associate Staff

Surgeons' Assistants

Diana L. D'Amelio
Donna M. Hamilton
David Johnson
John Lee
Mary L. Lombardi
Geoffrey O'Sullivan
Patricia J. Richardson
Howard F. Rose

Graduate Staff

Clinical Fellows

Eva Fischer, M.D.
Arthur S. Hawes, M.D.
Jeffrey D. Morehouse, M.D.
Craig S. Rock, M.D.
William A. Thompson III, M.D.
Kimberly J. Van Zee, M.D.

Surgeons

John M. Brown III, M.D.
Yuman Fong, M.D.
Henri R. Ford, M.D.
Louis Gevirtzman, M.D.
Edward J. Marcaccio Jr., M.D.
Joseph P. Minei, M.D.
Gregory M. Organ, M.D.
Catherine A. Ronaghan, M.D.

Assistant Surgeons

Ronald G. Albuquerque, M.D.
Michael K. Banbury, M.D.
Annabel E. M. Barber, M.D.
C. Andrew Bonham, M.D.
David M. Brame, M.D.
Armann O. Ciccirelli, M.D.
Mark A. Codner, M.D.
Thomas J. Fahey III, M.D.
Kenneth R. Fretwell, M.D.
Thomas A. Gardner, M.D.
Catherine V. Gerontis, M.D.
Jeffrey E. Gershenwald, M.D.
Leonard N. Girardi, M.D.
Stephen T. Greenberg, M.D.
Stephen U. Harris, M.D.
Randal D. Haworth, M.D.
Robert E. Helm, M.D.
Jill E. Hickling, M.D.
Haideh Hirmand, M.D.
James K. Hoffman, M.D.
Nicole J. Kafka, M.D.
Sandip Kapur, M.D.
Milan Kinkhabwala, M.D.
Richard E. Kirschner, M.D.
Sarah C. Klemmer, M.D.
John D. Klemperer, M.D.
Samantha E. Kwon, M.D.
William D. Lazenby Jr., M.D.
Andrew M. Lowy, M.D.
John D. Macgillivray, M.D.
Christopher J. Magovern, M.D.
Jonathan D. Mandell, M.D.
Faith A. Menken, M.D.
Robert J. Min, M.D.
Alexandra H. Simkovich, M.D.
Aaron T. Spingarn, M.D.
J. Rogers Temple Jr., M.D.
Ferdinand Velasco, M.D.
Alexander P. Vukasin, M.D.
Michael R. Zenn, M.D.
Gary A. Zimmerman, M.D.

Cardiothoracic Surgery

Medical Staff

Attending Surgeon-in-Charge

O. Wayne Isom, M.D.

Attending Surgeon

David B. Skinner, M.D.

Associate Attending Surgeons

Karl H. Krieger, M.D.
John C. McCabe, M.D.
Valavanur A. Subramanian, M.D.

Assistant Attending Surgeons

Nasser K. Altorki, M.D.
Dennis A. Bloomfield, M.D.
Michael E. Burt, M.D., Ph.D.
William J. Cole, M.D.
Brian S. Geller, M.D.
Jeffrey P. Gold, M.D.
Kenneth R. Krauss, M.D.
Samuel J. Lang, M.D.
Gregory Macina, M.D.
Michael J. Robbins, M.D.
Ira Cliff Schulman, M.D.
Mark A. Seldon, M.D.
Jerome Simson, M.D.
Alan Spiegel, M.D.

Professional-Associate Staff

Surgeons' Assistants

Elizabeth Bergland
Diane Scanzaroli

Graduate Staff

Clinical Fellow

Wilson Ko, M.D.

Thoracic Surgeons
Todd K. Rosengart, M.D.
James R. Taylor Jr., M.D.
Assistant Thoracic Surgeons
David W. Johnstone, M.D.
William G. Jones II, M.D.

Dentistry and Oral and Maxillofacial Surgery

Medical Staff

Attending Oral Surgeon-in-Charge
Stanley J. Behrman, D.M.D.

Attending Dentist
John J. Putnam, D.D.S.

Associate Attending Oral Surgeon
David A. Behrman, D.M.D.

Associate Attending Dentist (Endodontist)
Nelson I. Mendell, D.M.D.

Associate Attending Dentists (Periodontists)
Seymour M. Koteen, D.D.S.
Joseph E. Rowan, D.D.S.

Associate Attending Dentists (Prosthodontists)
Jason C. Lee, D.D.S.
Ivin B. Prince, D.D.S.

Associate Attending Dentist (TMJ)
Leonard E. Quitt, D.D.S.

Associate Attending Dentists
Lawrence A. Behrman, D.D.S.
Harry Lumerman, D.D.S.
Louis Marino, D.D.S.
Ernest R. Piccaro, D.D.S.

Assistant Attending Oral Surgeons
Steven M. Baum, D.D.S.
Thomas M. Darrigan, D.D.S.
Arthur C. Elias, D.M.D.
Michael R. Glogoff, D.M.D.
Jerry L. Halpern, D.D.S.
Andrew J. Hauser, D.D.S.
Claudia B. Kaplan, D.D.S.
Frederick M. Lifshay, D.D.S.
Jonathan T. Perry, D.D.S.
Peter H. Pruden, D.D.S.
Steven J. Tunick, D.M.D.

Assistant Attending Dentists (Endodontists)
Sebastian J. Lentini, D.D.S.
Andrew Seth Melinger, D.M.D.

Assistant Attending Dentists (Orthodontists)
Mark Jay Bronsky, D.M.D.
Marc S. Lemchen, D.M.D.
L. Jeffrey Lowenstein, D.M.D.
Gregory W. Sanford, D.M.D.
Michael G. Steinberg, D.D.S.

Assistant Attending Dentists (Pedodontists)
Louis M. Cooper, D.D.S.
Mark S. Hochberg, D.D.S.
David J. Levine, D.D.S.
Robin S. Lowenstein, D.M.D.
Jack L. Mitchell, D.D.S.

Assistant Attending Dentists (Periodontists)
Barry M. Libin, D.D.S.
Philip D. Pack, D.M.D.
George W. Sfera Jr., D.D.S.

Assistant Attending Dentist (Prosthodontist)
Jennifer J. Burrell, D.D.S.

Assistant Attending Dentists
Richard F. Giannandrea, D.D.S.
Robert Karsten, D.D.S.
Guy N. Minoli, D.D.S.
Edward J. Prus, D.D.S.
Steven Saltzman, D.D.S.
Robert M. Sorin, D.M.D.
Michael J. Vassallo, D.D.S.

Graduate Staff

Oral Surgeon
Gregory C. Chotkowski, D.M.D.

Assistant Oral Surgeon
Gayle Tutone Miranda, D.D.S.

Intern in Oral Surgery
Morgan E. Norris III, D.D.S.

Interns, General Practice Residency Program
Katherine J. Coombs, D.M.D.
Antonia J. Gut, D.D.S.
Peter W. Jankowski, D.D.S.

Neurosurgery

Medical Staff

Attending Surgeon-in-Charge
Russel H. Patterson Jr., M.D.

Attending Surgeon
Richard A. R. Fraser, M.D.

Associate Attending Surgeons
Joseph H. Galicich Jr., M.D.
Francis W. Gamache Jr., M.D.
Michael H. Lavyne, M.D.

Assistant Attending Surgeons
Jamshid B. G. Ghajar, M.D.
Robert B. Snow, M.D.

Graduate Staff

Clinical Fellow
Robert J. Hariri, M.D., Ph.D.

Surgeon
John M. Emery III, M.D.

Assistant Surgeons
Mark H. Bilsky, M.D.
Stanley B. Martin, M.D.
Ethan Taub, M.D.
Kevin J. Tracey, M.D.

Orthopedics

Medical Staff

Surgeon-in-Chief, the Hospital for Special Surgery
Andrew J. Weiland, M.D.

Attending Surgeons
Allan E. Inglis, M.D.
John N. Insall, M.D.
Joseph M. Lane, M.D.
David B. Levine, M.D.
Chitranjan S. Ranawat, M.D.
Leon Root, M.D.
Eduardo A. Salvati, M.D.
Russell F. Warren, M.D.
Philip D. Wilson Jr., M.D.

Associate Attending Surgeons
Walther H. O. Bohné, M.D.
Stephen William Burke, M.D.
John H. Healey, M.D.
John P. Lyden, M.D.
Peter J. Marchisello, M.D.
Ralph C. Marcove, M.D.
Richard McCormack Jr., M.D.
Paul M. Pellicci, M.D.
Thomas P. Sculco, M.D.
Thomas L. Wickiewicz, M.D.

Assistant Attending Surgeons
Stephen C. Allen, M.D.
David W. Altchek, M.D.

Abraham T. Appleton, M.D.
Roberta Brockman, M.D.
Frank P. Cammisia Jr., M.D.
Charles N. Cornell, M.D.
Mark P. Figgie, M.D.
Stephen J. O'Brien, M.D.
Jeanne R. Pamilla, M.D.
Kostas P. Velis, M.D.
Russell E. Windsor, M.D.

Graduate Staff

Surgeons
Erroll J. Bailey, M.D.
Michael S. Bednar, M.D.
Mark K. Bowen, M.D.
Daneca M. DiPaolo, M.D.
Stephen P. England, M.D.
William F. Flynn Jr., M.D.
Mark J. Geppert, M.D.
Steven B. Haas, M.D.
Eric S. Korsh, M.D.
Matthew J. Kraay, M.D.
James M. Leipzig, M.D.
Jay R. Lieberman, M.D.
John M. Marzo, M.D.
Michael J. Maynard, M.D.
William H. Montgomery, M.D.
Christopher S. Mow, M.D.
Stephen J. Nicholas, M.D.
Brendan M. Patterson, M.D.
Jeffery L. Pierson, M.D.
Louis H. Rappoport, M.D.
Howard G. Rosenthal, M.D.
Alan W. Yasko, M.D.

Assistant Surgeons
Robert J. Adelman, M.D.
Edward A. Athanasian, M.D.
Joseph Borrelli, Jr., M.D.
Mathias P. G. Bostrom, M.D.
John T. Braun, M.D.
Michael G. Browne, M.D.
Blackshear M. Bryan III, M.D.
George L. Caldwell Jr., M.D.
G. Hadley Callaway, M.D.
John C. Edwards, M.D.
Michelle Gerwin, M.D.
Tamara L. Guion, M.D.
Jeffrey L. Hanway, M.D.
Scott D. Martin, M.D.
Bruce H. Moeckel, M.D.
Michael J. Pagnani, M.D.
George A. Paletta Jr., M.D.
Peter F. Rizzo, M.D.
Scott Alan Rodeo, M.D.
Jose A. Rodriguez, M.D.
Paul T. Rubery Jr., M.D.
Stephen C. Saddler, M.D.
Andrew V. Slucky, M.D.
Mark Sobel, M.D.
Clifford B. Tribus, M.D.

Plastic Surgery

Medical Staff

Attending Surgeon-in-Charge
Lloyd Hoffman, M.D.

Attending Surgeons
Dircan Goulian, M.D.
Randolph H. Guthrie Jr., M.D.

Associate Attending Surgeon
James W. Smith, M.D.

Assistant Attending Surgeons
Gary S. Bromley, M.D.
Robert L. Cucin Jr., M.D.
Joseph Feinberg, M.D.
David A. Hidalgo, M.D.
Gerald Imber, M.D.
Martin E. Kessler, M.D.
Gregory S. La Trenta, M.D.
Thomas C. McLure III, M.D.
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Assistant Surgeons
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Urology

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John H. McGovern, M.D.
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Nachum M. Katlowitz, M.D. (leave of absence)
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Barbara Napolitano, M.A.

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Stephen Mills, M.P.H.
Joshua Muscat, M.P.H.

Deaths

We record with sorrow the passing during 1990 of the following members of the center's professional staff and faculty:

Francis P. Coombs, M.D.
Clinical Affiliate in Medicine
Stuart Kase, M.D.
Assistant Attending Surgeon
David Kitchin, M.D.
Associate Attending Physician
Ronald A. Leff, M.D.
Attending Anesthesiologist
Bertrand L. New, M.D.
Associate Attending Psychiatrist
R. Caird Watson, M.D.
Attending Radiologist

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Making a Gift to the New York Hospital-Cornell Medical Center

Gifts, bequests and trusts are important sources of support for the New York Hospital-Cornell Medical Center. Such gifts provide funding for a wide range of programs, including those that provide patient care, educate future physicians and scientists, and expand community outreach. Additionally, these gifts make possible pioneering biomedical research which results in new and improved cures and treatments for disease, helping people today as well as in future generations.

Gifts may be made in a number of ways—by cash, securities, or tangible property. They may be given outright, by bequest, or through a trust arrangement which can provide an income to the medical center, to the donor, or to his or her beneficiaries, for a predetermined period of time or for life.

The medical center encourages gifts without restriction so as to permit greater flexibility in planning and administering its extensive programs in patient care, education and research. However, if a donor is interested in making a gift, bequest, or trust to be used in whole or in part for any specific purpose within the hospital, medical college, or medical center, such use may be specified.

The New York Hospital-Cornell Medical Center is comprised of the Society of the New York Hospital and Cornell University Medical College. Both the Society and Cornell University, of which the medical college is a part, are qualified not-for-profit institutions which receive major support from private gifts. Gifts to the hospital, medical college, and medical center by individuals, foundations, or corporations are exempt from income, gift, and inheritance taxes to the extent and in the manner provided by federal and state laws.

The medical center is pleased to provide information about its numerous programs and activities, and to consult with donors and their advisors about various gift ideas, many of which provide a naming opportunity. Our *Guide to Giving* is available by calling the number listed below.

The Society of the New York Hospital, which is the legal corporate name for the New York Hospital, is a corporation created by Royal Charter granted by King George III of England in 1771. The suggested terminology for an unrestricted bequest to or for its benefit is: "I give, devise and bequeath to The Society of the New York Hospital Fund, Inc., a corporation created under the New York State Not-for-Profit Corporation Law and located in New York City, New York the sum of \$ _____ (or description of the property) to be used for the general corporate purposes of The Society of the New York Hospital as its board of directors should determine."

If a bequest is made to the medical college, the language may be: "I give and bequeath to Cornell University the sum of \$ _____ (or description of property) for use in connection with its Medical College in New York City."

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Further information about making a gift to the hospital, college, or medical center can be obtained from Robert A. Burch, Executive Director for Development and Public Affairs, The New York Hospital-Cornell Medical Center, 525 East 68th Street, New York, NY 10021, 212-746-4070.



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525 East 68th Street, New York, N.Y. 10021